



# The Triangle

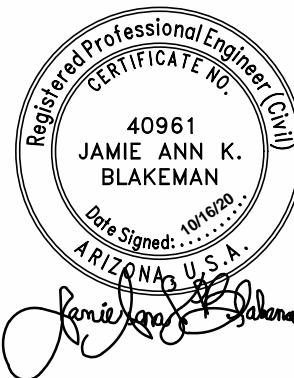
Traffic Impact & Mitigation Analysis



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## 1. INTRODUCTION AND EXECUTIVE SUMMARY

### 1.1. PURPOSE OF REPORT AND STUDY OBJECTIVES

Lōkahi, LLC (Lōkahi) was retained by PEG Development to complete a Traffic Impact & Mitigation Analysis for The Triangle. The objective of this Traffic Impact & Mitigation Analysis is to analyze the traffic related impacts of the proposed development to the adjacent roadway network. See [Figure 1](#) for the vicinity map.

### 1.2. EXECUTIVE SUMMARY

The proposed development is located on the north side of Indian School Road approximately 300 feet west of Scottsdale Road in Scottsdale, Arizona.

The proposed development will include the following land uses:

- |                            |                   |
|----------------------------|-------------------|
| • Multi-Family Residential | 230 units         |
| 41 studio units            |                   |
| 98 one-bedroom units       |                   |
| 79 two-bedroom units       |                   |
| 12 three-bedroom units     |                   |
| • Hotel                    | 168-rooms         |
| • Restaurant               | 4,000 square feet |

This Traffic Impact and Mitigation Analysis includes:

- Level of service analysis of existing conditions for the weekday AM and PM peak hours
- Trip Generation for the existing and proposed development
- Trip Generation comparison for the existing and proposed development
- Most recent 3-year collision history
- Level of service analysis for the opening year (2024) weekday AM and PM peak hours
  - 2024 No Build
  - 2024 Build

The following are the thirteen (13) intersections included in this study:

- Goldwater Boulevard and 3<sup>rd</sup> Avenue (1)
- 3<sup>rd</sup> Avenue and Alley – 175 feet west of Craftsman Court (2)
- 3<sup>rd</sup> Avenue and Craftsman Court (3)
- 3<sup>rd</sup> Avenue and Driveway A – 130 feet east of Craftsman Court (4)
- Scottsdale Road and 3rd Avenue (5)



- Indian School Road and Goldwater Boulevard (6)
- Indian School Road and Marshall Way (7)
- Indian School Road and Alley – 200 feet east of Marshall Way (8)
- Indian School Road (north side) and Driveway B – 550 feet west of Scottsdale Road (9)
- Indian School Road (north side) and Driveway C – 450 feet west of Scottsdale Road (10)
- Indian School Road and Scottsdale Road (11)
- Indian School Road and Buckboard Trail (12)
- Indian School Road and Drinkwater Boulevard (13)

### Existing Capacity Analysis

The AM and PM peak hour existing conditions capacity analysis were completed for the existing study intersections. The results of the capacity analysis reveal the following locations with an existing level of service (LOS) E or F:

#### Indian School Road and Goldwater Boulevard (6) – Signalized

- EB left PM peak hour operates at LOS E
- WB left AM and PM peak hours operate at LOS E
- NB left PM peak hour operates at LOS E
- SB left PM peak hour operates at LOS E

#### Indian School Road and Scottsdale Road (11) – Signalized

- WB through AM peak hour operates at LOS E
- WB shared through-right AM peak hour operates at LOS E

#### Indian School Road and Buckboard Trail and Indian School Road (12) – Signalized

- SB shared left-through AM peak hour operates at LOS E
- SB right AM peak hour operates at LOS E

#### Drinkwater Boulevard and Indian School Road (13) – Signalized

- Overall PM peak hour operates at LOS E
- EB through PM peak hour operates at LOS E
- EB shared through-right PM peak hour operates at LOS E
- WB left AM and PM peak hours operate at LOS E and F, respectively
- NB left PM peak hour operates at LOS F
- NB right PM peak hour operates at LOS F

### Trip Generation

The proposed development is anticipated to generate 3,106 weekday trips, with 196 trips occurring during the AM peak hour and 239 trips occurring during the PM peak hour.



## Trip Generation Comparison

### EXISTING DEVELOPMENT VS. THE TRIANGLE

A comparison between the trips generated by the existing development and The Triangle development was calculated. The peak hour trips generated by the existing development were calculated based upon operations of the existing site.

The Triangle development will produce 1,525 more weekday daily trips, with 121 more trips during the AM peak hour, and 76 (24%) fewer trips during the PM peak hour than the existing development.

### EXISTING ZONING VS. THE TRIANGLE

Currently, this parcel is zoned for C-2 (Central Business) development with an allowed floor area ratio of 0.8. Two (2) trip generation calculations were completed with potential uses with the build out under the existing zoning:

#### Option 1

With a total lot area of 136,010 SF (3.12-acres), and a maximum floor-to-area ratio (FAR) of 0.80, a 108,808 square foot retail use was assumed for potential buildout. The Triangle development will generate **3,262 (51%) fewer weekday trips, with 11 (5%) fewer trips during the AM peak hour, and 340 (59%) fewer trips during the PM peak hour** than the build out of retail uses under the existing zoning.

#### Option 2

The second option considers a 54,404 SF retail use (0.4 FAR) combined with two (2) 6,000 SF high-turnover (sit down) restaurants. This results in a total FAR of 0.49. The Triangle development will generate **2,214 (42%) fewer weekday trips, with 102 (34%) fewer trips during the AM peak hour, and 225 (48%) fewer trips during the PM peak hour** than the build out of a mix of retail and restaurant uses under the existing zoning.

### Future Conditions - Year 2024

Year 2024 analyses was completed with and without the build out of the proposed development. An annual growth rate of 2.0% was applied to the existing traffic volumes.

A capacity analysis was completed for both the AM and PM peak hours for year 2024, with and without the build out of the proposed development. **All movements operate at a LOS D or better or are maintained at the year 2024 no build level of service with the build out of the proposed development. Therefore, it is anticipated that The Triangle development will result in minimal traffic related impacts to the surrounding roadway network.**



## Recommendations

The recommendations with the build out of The Triangle development include:

### Signal Timing

As with any new development and potential change in traffic patterns, the following is recommended:

- **Monitor and Adjust Signal Timing**

Monitor traffic patterns in the area and if necessary, adjust nearby signal timing



## 2. PROPOSED DEVELOPMENT

The study area is located in the City of Scottsdale, Arizona, approximately 2 1/4 miles west of State Route Loop 101 (SR 101L) and 4 miles north of State Route Loop 202 (SR 202L). The proposed development is located on the north side of Indian School Road approximately 300 feet west of Scottsdale Road.

The proposed development will include the following land uses:

- Multi-Family Residential                    230 units
  - 41 studio units
  - 98 one-bedroom units
  - 79 two-bedroom units
  - 12 three-bedroom units
- Hotel    168-rooms
- Restaurant                                  4,000 square feet

See [Figure 2](#) and [Appendix A](#) for the proposed site plan.

There are five (5) access points to the proposed site, three (3) located along Indian School Road and two (2) located along 3<sup>rd</sup> Avenue.

**3<sup>rd</sup> Avenue and Alley (2)** is located approximately 175 feet west of Craftsman Court and will allow all movements into and out of the existing alley connecting to the site.

**3<sup>rd</sup> Avenue and Driveway A (4)** is located approximately 130 feet east of Craftsman Court and will allow all movements into and out of the site. This driveway provides direct access to the hotel drop-off area.

**Indian School Road and Alley (8)** is located approximately 200 feet east of Marshall Way and will allow right in and right out movements to the existing alley connecting to the site.

**Indian School Road and Driveway B (9)** is located approximately 475 feet west of Scottsdale Road and will allow right out movements only out of the site

**Indian School Road and Driveway C (10)** is located approximately 350 feet west of Scottsdale Road and will allow right in and left in movements only into the site.

See [Figure 3](#) for study area.



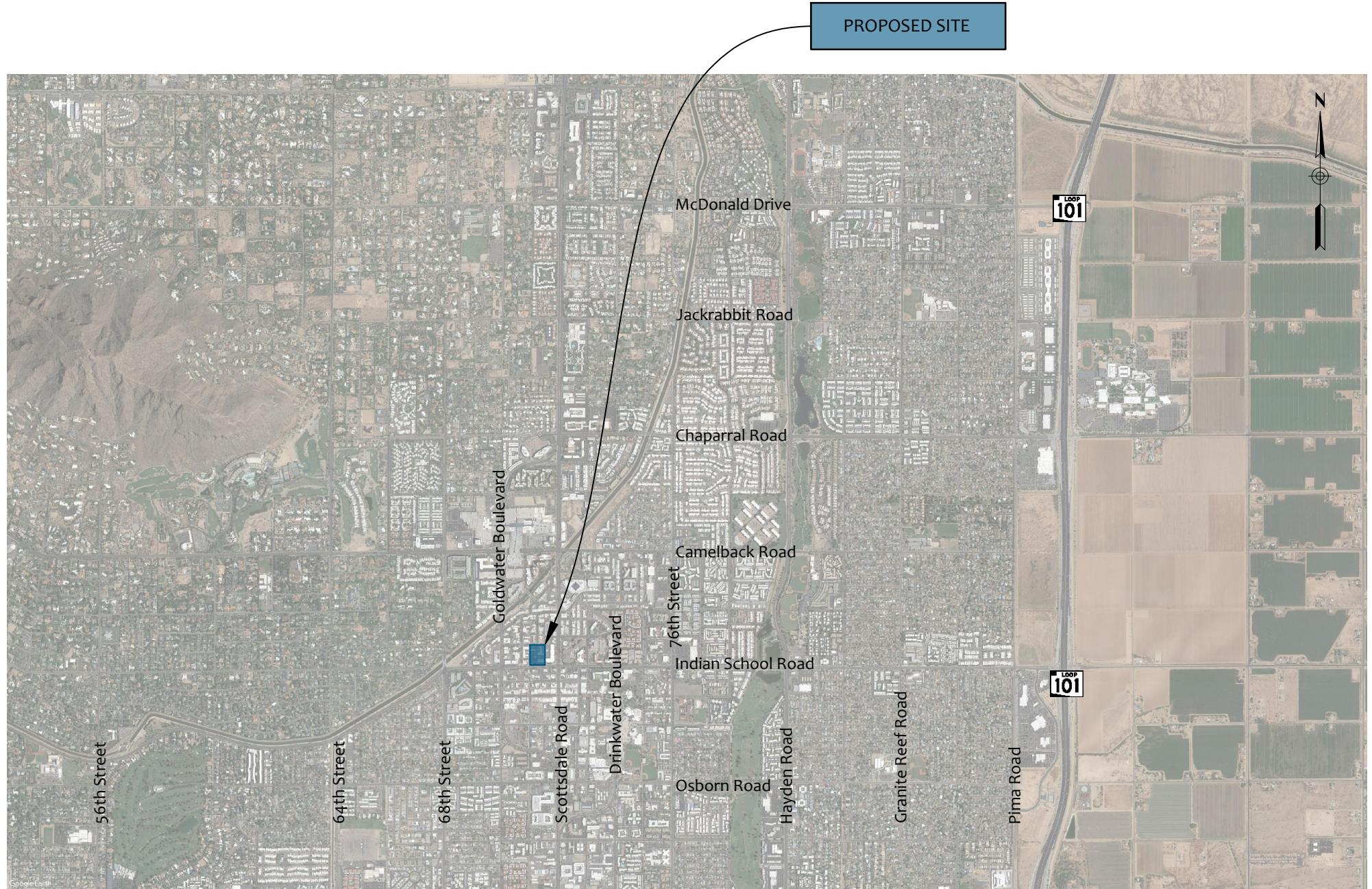


FIGURE 1 | VICINITY MAP

10-ZN-2020

10/22/20



FIGURE 2 | SITE PLAN



## Legend

Intersection

FIGURE 3 | STUDY AREA



### 3. AREA CONDITIONS

The study area is located in the City of Scottsdale, Arizona. **Sections 3.1** and **3.2** provide detailed descriptions of the study roadway segments and intersections.

#### 3.1. STUDY ROADWAY SEGMENTS

**Goldwater Boulevard** runs north-south and in the vicinity of the site provides two (2) through lanes for northbound travel and three (3) through lanes for southbound direction of travel with a two-way-left-turn-lane (TWLTL) and intermittent landscaped median. Goldwater Boulevard is approximately one-tenth (0.1) of a mile west of the proposed development. There is a posted speed limit of 35 miles per hour (mph). The City of Scottsdale classifies Goldwater Boulevard as a couplet, according to *The Scottsdale Master Transportation Plan*, dated July 2016. The City of Scottsdale's 2018 Average Daily Segment Traffic (ADT) Volumes map reports an ADT of 17,700 vehicles per day along Goldwater Boulevard, between Indian School Road and Camelback Road.

**Marshall Way** runs north-south, approximately 200 feet west of the proposed site and provides one (1) through lane in each direction of travel. There is an unposted speed limit of 25 mph. Angled on-street parking is provided on both sides of the Marshall Way, north of Indian School Road.

**Craftsman Court** runs north-south, directly north of the proposed site and provides one (1) through lane in each direction of travel. There is an unposted speed limit of 25 mph. Angled on-street parking is provided on both sides of the Craftsman Court.

**Scottsdale Road** runs north-south, approximately 300 feet east of the proposed site and provides two (2) through lanes in each direction of travel with a landscaped median, within the study area. There is a posted speed limit of 30 mph and 25 mph north and south of Indian School Road, respectively. The City of Scottsdale classifies Scottsdale Road as a major collector within the study area, according to *The Scottsdale Master Transportation Plan*, dated July 2016. The City of Scottsdale's 2018 Average Daily Segment Traffic Volumes map reports an ADT of 22,400 vehicles per day along Scottsdale Road, between Indian School Road and Camelback Road.

**Buckboard Trail** runs north-south and in the vicinity of the site provides one (1) through lane in each direction of travel. Buckboard Trail is approximately two-tenths (0.2) of a mile east of the proposed development. There is an unposted speed limit of 25 mph. Parallel on-street parking is provided on both sides of the Buckboard Trail.

**Drinkwater Boulevard** runs north-south in the vicinity of the site and provides two (2) through lanes for southbound travel and two (2) through lanes for northbound travel which transition to three (3) through lanes north of Indian School Road with a raised landscaped median. Drinkwater Boulevard is approximately three-tenths (0.3) of a mile east of the proposed development. There is a posted speed limit of 35 mph. The City of Scottsdale classifies Drinkwater Boulevard as a couplet,



according to *The Scottsdale Master Transportation Plan*, dated July 2016. The City of Scottsdale's 2018 Average Daily Segment Traffic (ADT) Volumes map reports an ADT of 8,300 vehicles per day along Drinkwater Boulevard, between Indian School Road and Scottsdale Road.

**3<sup>rd</sup> Avenue** runs east-west and in the vicinity of the site provides one (1) through lane in each direction of travel. 3<sup>rd</sup> Avenue is the northern border of the proposed development. There is an unposted speed limit of 25 mph. Parallel on-street parking is provided on both sides of the 3<sup>rd</sup> Avenue.

**Indian School Road** runs east-west along the southern border of the proposed development. In the vicinity of the site Indian School Road provides two (2) through lanes for eastbound travel and two (2) through lanes for westbound travel, which transition to three (3) through lanes west of Goldwater Boulevard. A center two-way-left-turn-lane (TWLTL) with an intermittent landscaped median is provided throughout, as well as a bike lane in each direction of travel along Indian School Road. There is a posted speed limit of 35 mph. The City of Scottsdale classifies Indian School Road as a major arterial and minor arterial west and east of Goldwater Boulevard, respectively, within the study area, according to *The Scottsdale Master Transportation Plan*, dated July 2016. The City of Scottsdale's 2018 Average Daily Segment Traffic Volumes map reports an ADT of 25,500 vehicles per day along Indian School Road, west of Goldwater Boulevard, 19,600 vehicles per day, between Goldwater Boulevard and Scottsdale Road, and 27,700 vehicles per day between Scottsdale Road and Drinkwater Boulevard.

### 3.2. STUDY INTERSECTIONS

**Goldwater Boulevard and 3<sup>rd</sup> Avenue (1)** currently operates as a one-way stop-controlled T-intersection with stop control on the westbound approach. The westbound approach provides one (1) shared left-right turn lane. The northbound approach provides one (1) through lane and one (1) shared through-right turn lane. The southbound approach provides one (1) left turn lane and three (3) through lanes.

**3<sup>rd</sup> Avenue and Craftsman Court (3)** currently operates as a one-way stop-controlled T-intersection with stop control on the southbound approach. The eastbound approach provides one (1) shared left turn-through lane. The westbound approach provides one (1) shared through-right turn lane. The southbound approach provides one (1) shared left-right turn lane.

**Scottsdale Road 3<sup>rd</sup> Avenue (5)** currently operates as a signalized intersection. The eastbound and westbound approaches provide one (1) dedicated left turn lane and one (1) shared through-right turn lane. The northbound approach provides one (1) dedicated left turn lane, one (1) through lane, and one (1) shared through-right turn lane. The southbound approach provides one (1) dedicated left turn lane, two (2) through lanes, and one (1) dedicated right turn lane.



**Indian School Road and Goldwater Boulevard (6)** currently operates as signalized intersection. The eastbound approach provides two (2) dedicated left turn lanes, two (2) through lanes, and one (1) dedicated right turn lane. The westbound approach provides two (2) dedicated left turn lanes, one (1) through lane, and one (1) shared through-right turn lane. The northbound approach provides one (1) dedicated left turn lane, one (1) through lane and one (1) shared through-right turn lane. The southbound approach provides one (1) dedicated left turn lane, two (2) through lanes, and one (1) shared through-right turn lane.

**Indian School Road and Marshall Way (7)** currently operates as a signalized intersection. The eastbound and westbound approaches provide one (1) dedicated left turn lane, one (1) through lane, and one (1) shared through-right turn lane. The northbound and southbound approaches provide one (1) shared left-through-right turn lane.

**Indian School Road and Scottsdale Road (11)** currently operates as a signalized intersection. The eastbound, westbound, and northbound approaches provide one (1) dedicated left turn lane, one (1) through lane and one (1) shared through-right turn lane. The southbound approach provides one (1) dedicated left turn lane, two (2) through lanes, and one (1) dedicated right turn lane.

**Indian School Road and Buckboard Tail (12)** currently operates as a signalized intersection. The eastbound and westbound approaches provide one (1) dedicated left turn lane, one (1) through lane, and one (1) shared through-right turn lane. The northbound approach provides one (1) shared left-through-right turn lane. The southbound approach provides one (1) shared left-through turn lane and one (1) dedicated right turn lane.

**Indian School Road and Drinkwater Boulevard (13)** currently operates as a signalized intersection. The eastbound approach provides one (1) dedicated left turn lane, one (1) through lane, and one (1) shared through-right turn lane. The westbound approach provides one (1) dedicated left turn lane, two (2) through lanes, and one (1) dedicated right turn lane. The northbound approach provides one (1) dedicated left turn lane, two (2) through lanes, and one (1) dedicated right turn lane. The southbound approach provides two (2) dedicated left turn lanes, one (1) through lane, and one (1) shared through-right turn lane.

### 3.3. SURROUNDING AREA LAND USE

The Triangle development is located in Old Town Scottsdale, just north of the historic Arts District. The proposed development is bordered by 3<sup>rd</sup> Avenue and Indian School Road to the north and south, respectively, and retail, commercial and office developments directly east and west.



### 3.4. SITE ACCESSIBILITY

#### Pedestrian Facilities, Bicycle Facilities, and Shared-Use Paths

Continuous sidewalks are provided along adjacent roadways bordering the proposed site. Within the vicinity of the study area, bike lanes are currently provided along the north and south sides of Indian School Road and bike routes are provided along Goldwater Boulevard, Scottsdale Road, and Drinkwater Boulevard. The Mountain Vista self-guided bike tour route begins and ends at the intersection of Main Street and Brown Avenue and routes along Marshall Way, adjacent to the proposed development. Additionally, the Arizona Canal is located approximately one-quarter (0.25) mile northwest of the proposed site and provides approximately 70 miles of shared use paths.

#### Transit Facilities

Valley Metro Route 41 operates along Indian School Road within the study area. This route connects Avondale to Scottsdale. According to the Valley Metro System Map, there are two (2) stops located near the intersection of Indian School Road and Goldwater Boulevard (6), two (2) stops located near the intersection of Indian School Road and Scottsdale Road (11), and two (2) stops located near the intersection of Indian School Road and Drinkwater Boulevard (13). This route operates Monday through Sunday.

Valley Metro Route 72 operates along Scottsdale Road within the study area. This route connects the City of Chandler to the northern portion of the City of Scottsdale. According to the Valley Metro System Map, there are two (2) stops located near the intersection of Scottsdale Road and 3<sup>rd</sup> Avenue (5) and two (2) stops located near the intersection of Indian School Road and Scottsdale Road (11). This route operates Monday through Sunday.

In addition, the City of Scottsdale provides five trolley routes. The Old Town Route (OLDT) circulates around Old Town Scottsdale. In the vicinity of the site, trolley stops are located near the intersection of 3<sup>rd</sup> Avenue and Craftsman Court (3) and Indian School Road and Buckboard Trail (12). This trolley route operates every 15 minutes between 10:00 AM and 9:25 PM every day of the week.



### 3.5. COLLISION HISTORY

The most recent three-year collision history, from January 2017 to December 2019, was obtained from the City of Scottsdale. See [Appendix B](#) for collision data. The data included the following intersections and segments:

- Goldwater Boulevard and 3<sup>rd</sup> Avenue (1)
- 3<sup>rd</sup> Avenue and Craftsman Court (3)
- Scottsdale Road and 3<sup>rd</sup> Avenue (5)
- Indian School Road and Goldwater Boulevard (6)
- Indian School Road and Marshall Way (7)
- Indian School Road and Scottsdale Road (11)
- Indian School Road and Buckboard Trail (12)
- Indian School Road and Drinkwater Boulevard (13)
- Indian School Road Segment, between Goldwater Boulevard and Scottsdale Road
- Indian School Road Segment, between Scottsdale Road and Drinkwater Boulevard
- 3<sup>rd</sup> Avenue, between Goldwater Boulevard and Scottsdale Road
- Goldwater Boulevard, between Indian School Road and 3<sup>rd</sup> Avenue
- Marshall Way, between Indian School Road and 3<sup>rd</sup> Avenue
- Scottsdale Road, between Indian School Road and 3<sup>rd</sup> Avenue

#### **Goldwater Boulevard and 3<sup>rd</sup> Avenue (1)**

During the three-year period, there was a total of one (1) rear-end crash, which resulted in one (1) report of no injuries.

The violation included one (1) speed too fast for conditions.

#### **3<sup>rd</sup> Avenue and Craftsman Court (3)**

During the three-year period, there was a total of three (3) crashes, of which there was one (1) angle, one (1) left turn, and one (1) rear-end crash. Two (2) reported possible injuries and one (1) reported no injuries.

One (1) violation included speed too fast for conditions, and two (2) disregarded a traffic signal.

#### **Scottsdale Road and 3<sup>rd</sup> Avenue (5)**

During the three-year period, there was a total of twenty-one (21) crashes, of which there were two (2) angle, two (2) left turn, thirteen (13) rear-end, two (2) sideswipe – same direction, and two (2) other crashes. Two (2) reported non-incapacitating injuries, four (4) reported possible injuries, thirteen (13) no injuries, and the severity of the remaining two (2) crashes is unknown.



Ten (10) violations included speed too fast for conditions, one (1) followed too closely, one (1) disregarded a traffic signal, one (1) made an improper turn, one (1) knowingly operated with faulty/missing equipment, one (1) unsafe lane change, two (2) failed to yield right of way, one (1) no improper action, and the three (3) remaining violations are either unknown or other type violations.

### **Indian School Road and Goldwater Boulevard (6)**

During the three-year period, there was a total of thirty-five (35) crashes, of which there were five (5) angle, five (5) left turn, fifteen (15) rear-end, two (2) head-on, and eight (8) sideswipe – same direction crashes. Two (2) reported incapacitating injuries, four (4) reported non-incapacitating injuries, five (5) possible injuries, nineteen (19) no injuries, and the severity of the remaining five (5) is unknown.

Thirteen (13) violations included speed too fast for conditions, three (3) followed too closely, two (2) disregarded a traffic signal, two (2) unsafe lane changes, one (1) failed to keep in proper lane, four (4) failed to yield right of way, six (6) no improper action, and the four (4) remaining violations are either unknown or other type violations.

### **Indian School Road and Marshall Way (7)**

During the three-year period, there was a total of eight (8) crashes, of which there were two (2) angle, three (3) left turn, two (2) sideswipe – same direction, and one (1) other crash. One (1) reported incapacitating injuries, one (1) reported possible injuries, five (5) no injuries, and the severity of the remaining one (1) crash is unknown.

One (1) violation included speed too fast for conditions, two (2) disregarded a traffic signal, two (2) unsafe lane changes, two (2) failed to yield right of way, and one (1) other type violation.

### **Indian School Road and Scottsdale Road (11)**

During the three-year period, there was a total of seventy-four (74) crashes, of which there were two (2) single vehicle, eighteen (18) angle, six (6) left turn, thirty-six (36) rear-end, one (1) head-on, eight (8) sideswipe – same direction, and three (3) other crashes. Eleven (11) reported possible injuries, fifty (50) reported no injuries, and the severity of the one (1) remaining crash is unknown.

Twenty-two (22) violations included speed too fast for conditions, five (5) followed too closely, fourteen (14) disregarded traffic signal, one (1) made an improper turn, three (3) unsafe lane changes, one (1) failed to keep in proper lane, one (1) other unsafe passing, ten (10) failed to yield right of way, eight (8) no improper actions, and the nine (9) remaining violations are either unknown or other type violations.

### **Indian School Road and Buckboard Trail (12)**

During the three-year period, there was a total of fourteen (14) crashes, of which there was one (1) single vehicle, four (4) angle, eight (8) rear end, and one (1) sideswipe – same direction crashes.



One (1) reported non-incapacitating injuries, ten (10) reported no injuries, and the severity of the remaining three (3) crashes is unknown.

Seven (7) violations included speed too fast for conditions, one (1) disregarded traffic signal, two (2) failed to yield right of way, two (2) no improper action, and the two (2) remaining violations are either unknown or other type violations.

#### **Indian School Road and Drinkwater Boulevard (13)**

During the three-year period, there was a total of twenty-nine (29) crashes, of which there was one (1) single vehicle, four (4) angle, three (3) left turn, fifteen (15) rear-end, two (2) head-on, two (2) sideswipe – same direction, and the manner of collision of the remaining two (2) crashes is unknown. One (1) reported incapacitating injuries, two (2) reported non-incapacitating injuries, two (2) possible injuries, twenty-two (22) no injuries, and the severity of the remaining two (2) crashes is unknown

Fifteen (15) violations included speed too fast for conditions, one (1) followed too closely, one (1) disregarded traffic signal, two (2) unsafe lane change, three (3) failed to yield right of way, and the seven (7) remaining violations are either unknown or other type violations.

#### **Indian School Road, between Goldwater Boulevard and Scottsdale Road**

During the three-year period, there was a total of eleven (11) crashes, of which there was one (1) single vehicle, one (1) angle, seven (7) rear-end, and two (2) sideswipe – same direction. One (1) reported non-incapacitating injuries, one (1) reported possible injuries, seven (7) no injuries, and the severity of the remaining two (2) crashes is unknown

Five (5) violations included speed too fast for conditions, two (2) followed too closely, two (2) made an improper turn, and two (2) unsafe lane changes.

#### **Indian School Road, between Scottsdale Road and Drinkwater Boulevard**

During the three-year period, there was a total of twelve (12) crashes, of which there was one (1) angle, five (5) rear-end, and six (6) sideswipe – same direction. Three (3) reported non-incapacitating injuries, two (2) reported possible injuries, and the seven (7) remaining crashes reported no injuries.

Four (4) violations included speed too fast for conditions, five (5) unsafe lane changes, one (1) failed to yield right of way, and the two (2) remaining violations are other type violations.

#### **3<sup>rd</sup> Avenue, between Goldwater Boulevard and Scottsdale Road**

During the three-year period, there were no reported crashes along this segment.



#### **Goldwater Boulevard, between Indian School Road and 3<sup>rd</sup> Avenue**

During the three-year period, there was a total of two (2) crashes, of which there was one (1) single vehicle, and one (1) rear-end. One (1) reported non-incapacitating injuries and the severity of the remaining one (1) crash is unknown.

One (1) violation included speed too fast for conditions and the one (1) remaining violation included no improper action.

#### **Marshall Way, between Indian School Road and 3<sup>rd</sup> Avenue**

During the three-year period, there were no reported crashes along this segment.

#### **Scottsdale Road, between Indian School Road and 3<sup>rd</sup> Avenue**

During the three-year period, there was a total of eight (8) crashes, of which there was one (1) single vehicle, four (4) rear-end, and three (3) sideswipe – same direction. One (1) reported non-incapacitating injuries, one (1) reported possible injuries, and the six (6) remaining crashes reported no injuries.

Three (3) violations included speed too fast for conditions, two (2) unsafe lane changes, and the three (3) remaining violations are either unknown or other type violations.



### 3.6. COLLISION RATES

The City of Scottsdale's 2018 *Traffic Volume and Collision Rate Data* report provides collision rate and traffic volume information on major roadway segments and at major intersections within the City. Segment collisions are collisions that occur on a major street more than 100 feet from the major intersections that define the segment, including at minor intersections within the segment. Intersection collisions are collisions that occur at or within 100 feet of a major intersection.

The collision rates and city-wide rankings for the study roadway segments are shown in **Table 1**. The collision rates and city-wide rankings for the study intersections are shown in **Table 2**.

**Table 1 – Collision Rates - Study Roadway Segments**

| Segment  | From                | To                   | Collision Rate | Rank |
|--|---------------------|----------------------|----------------|------|
| Scottsdale Road  | Indian School Road  | Camelback Road       | 6.6            | 5    |
| Indian School Road                                     | Goldwater Boulevard | Scottsdale Road      | 5.03           | 13   |
| Indian School Road                                     | Scottsdale Road     | Drinkwater Boulevard | 4.35           | 17   |
| Drinkwater Boulevard                                   | Indian School Road  | Scottsdale Road      | 3.37           | 36   |
| Goldwater Boulevard                                    | Indian School Road  | Camelback Road       | 1.37           | 129  |
| 2018 City of Scottsdale Average Segment Collision Rate |                     |                      |                | 1.53 |

**Table 2 – Collision Rates - Study Intersections**

| Intersection                                | Collision Rate | Rank |
|---|----------------|------|
| Scottsdale Road and Indian School Road      | 1.48           | 3    |
| Goldwater Boulevard and Indian School Road  | 0.81           | 50   |
| Drinkwater Boulevard and Indian School Road | 0.65           | 77   |
| 2018 Average Intersection Collision Rate    | 0.58           |      |



## 4. EXISTING CONDITIONS

### 4.1. EXISTING LAND USE

According to the Maricopa County Assessor's website, the proposed development will be made up of three (3) existing developed parcels that are zoned for Central Business (C-2) land uses. Of these three parcels the first includes a hotel and the second is comprised of a comedy club, cocktail bar, event venue, and custom invitation and stationary shop. The final parcel includes a vaporizer store, nail salon, hair salon, architectural firm, and a vacation home rental agency. The Triangle development will be located on the combined 3.12-acre lot. See [Appendix C](#) for detailed parcel information.

### 4.2. EXISTING TRAFFIC COUNTS

During recent weeks Arizona was under "stay at home" orders due to COVID-19 and therefore, was experiencing a decline in traffic as well as non-typical traffic patterns. Therefore, this was discussed with the City of Scottsdale Transportation staff and it was agreed that collecting data at this time is not ideal. Fortunately, there was a recent traffic study nearby completed in 2019 which included traffic count data from 2018. Adjustment factors including annual growth rates as well as seasonal adjustment factors were applied to these traffic counts to create year 2020 existing traffic counts. Traffic count data from the prior study included all the major intersections including arterial and collector roadways.

The traffic count data included in the *Southbridge Expansion Traffic Impact and Mitigation Analysis*, completed by CivTech, dated May 2019 was used for the following eight (8) intersections:

- Goldwater Boulevard and 3<sup>rd</sup> Avenue (1)
- 3<sup>rd</sup> Avenue and Craftsman Court (3)
- Scottsdale Road and 3<sup>rd</sup> Avenue (5)
- Indian School Road and Goldwater Boulevard (6)
- Indian School Road and Marshall Way (7)
- Indian School Road and Scottsdale Road (11)
- Indian School Road and Buckboard Trail (12)
- Indian School Road and Drinkwater Boulevard (13)

The intersections where prior traffic count data was not available included the stop-controlled intersections. Typically, at these types of intersections recommendations tend to be minimal, particularly in built out areas such as this. At the time of the report, any traffic count data at the following five (5) intersections were unavailable:

- 3<sup>rd</sup> Avenue and Alley – 175 feet west of Craftsman Court (2)
- 3<sup>rd</sup> Avenue and Driveway A – 130 feet east of Craftsman Court (4)



- Indian School Road and Alley – 200 feet east of Marshall Way (8)
- Indian School Road (north side) and Driveway B – 450 feet west of Scottsdale Road (9)
- Indian School Road (north side) and Driveway C – 325 feet west of Scottsdale Road (10)

The peak hour identified in the *Southbridge Expansion Traffic Impact and Mitigation Analysis* was analyzed throughout this study. Additionally, the City of Scottsdale seasonal adjustment factors were used to adjust the traffic counts. The traffic volumes were adjusted based on the month the counts were taken. See **Appendix D** for detailed count data. See **Figure 4** for the existing adjusted AM and PM peak hour weekday traffic volumes.

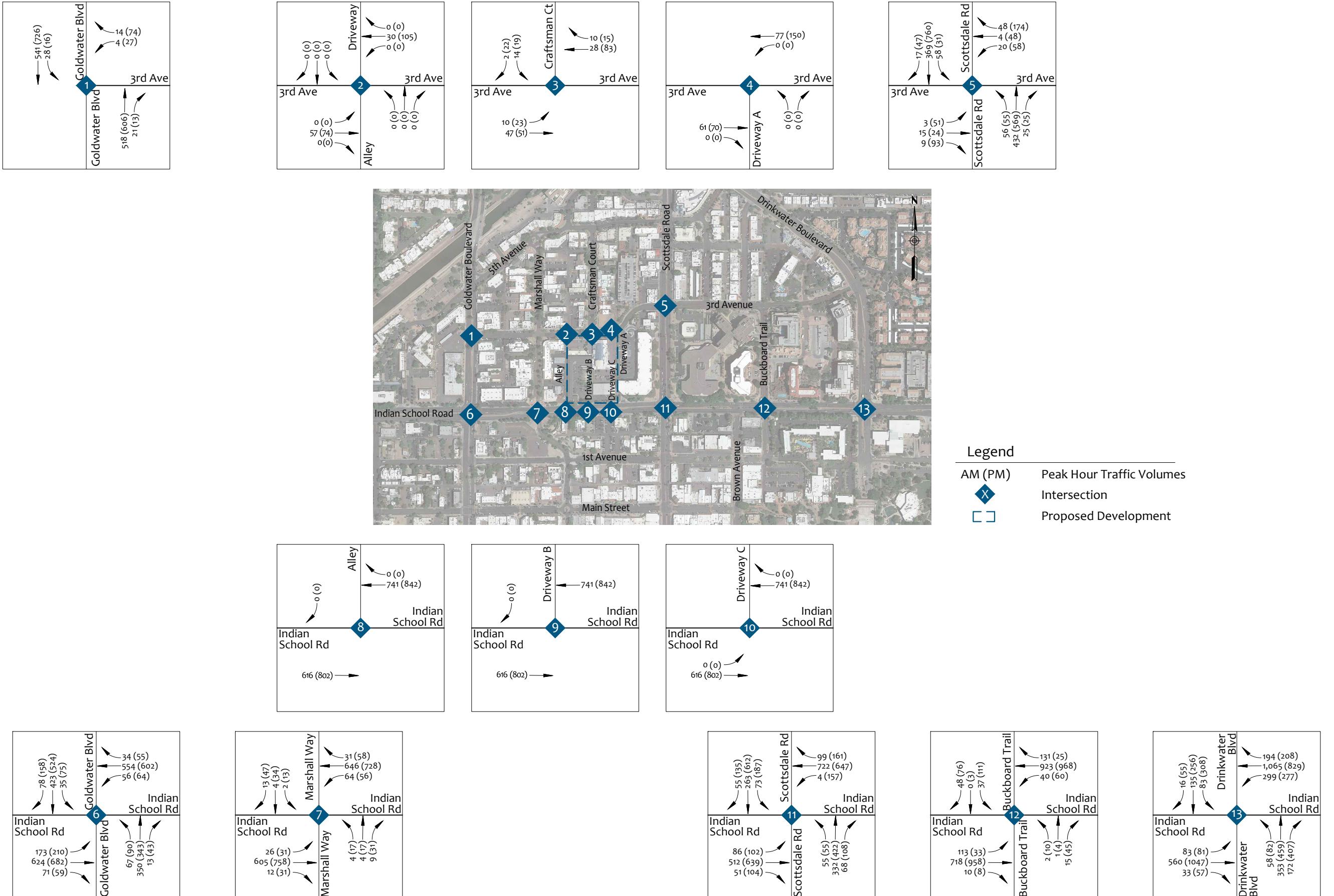


FIGURE 4 | EXISTING TRAFFIC VOLUMES



#### 4.3. EXISTING CAPACITY ANALYSIS

The existing conditions capacity analysis was completed for the existing study intersections. The capacity and level of service for the study area intersections were evaluated using the methodology presented in the 6<sup>th</sup> Edition of the Highway Capacity Manual. Traffic analysis software, Synchro Version 10.3, was used to perform the analyses using an assumed Peak Hour Factor (PHF) of 0.92 and the existing signal timing provided by the City of Scottsdale. See **Appendix E** for the existing signal timing.

**Table 3** is from the 6<sup>th</sup> Edition of the Highway Capacity Manual Exhibit 20-2, which lists the Level of Service (LOS) thresholds for signalized and unsignalized intersections.

**Table 3 – Level of Service Criteria**

| Level of Service (LOS) | Control Delay per Vehicle (s/veh) |                           |
|------------------------|-----------------------------------|---------------------------|
|                        | Signalized Intersection           | Unsignalized Intersection |
| A                      | ≤ 10                              | 0 - 10                    |
| B                      | > 10-20                           | > 10-15                   |
| C                      | > 20-35                           | > 15-25                   |
| D                      | > 35-55                           | > 25-35                   |
| E                      | > 55-80                           | > 35-50                   |
| F                      | > 80                              | > 50                      |

The results of the capacity analysis reveal the following locations with an existing level of service (LOS) E or F:

##### **Goldwater Boulevard and Indian School Road (6) – Signalized**

- EB left PM peak hour operates at LOS E
- WB left AM and PM peak hours operate at LOS E
- NB left PM peak hour operates at LOS E
- SB left PM peak hour operates at LOS E

##### **Indian School Road and Scottsdale Road (11) – Signalized**

- WB through AM peak hour operates at LOS E
- WB shared through-right AM peak hour operates at LOS E

##### **Indian School Road and Buckboard Trail (12) – Signalized**

- SB shared left-through AM peak hour operates at LOS E
- SB right AM peak hour operates at LOS E

##### **Drinkwater Boulevard and Indian School Road (13) – Signalized**

- Overall PM peak hour operates at LOS E



- EB through PM peak hour operates at LOS E
- EB shared through-right PM peak hour operates at LOS E
- WB left AM and PM peak hours operate at LOS E and F, respectively
- NB left PM peak hour operates at LOS F
- NB right PM peak hour operates at LOS F

The existing AM and PM peak hour level of service and delay for unsignalized intersections are shown in **Table 4** and signalized intersections are shown in **Table 5** and **Table 6**.

See **Figure 5** for the existing AM and PM peak hour capacity analysis. The detailed capacity analysis sheets can be found in **Appendix F**.

**Table 4 – Existing Level of Service and Delay – Unsignalized**

| Intersection                           | Existing Conditions |       |         |       |
|--|---------------------|-------|---------|-------|
|  | AM PEAK             |       | PM PEAK |       |
| Unsignalized Intersections             | LOS                 | DELAY | LOS     | DELAY |
| Goldwater Boulevard and 3rd Avenue (1) |                     |       |         |       |
| Westbound Shared Left-Right            | A                   | 9.4   | B       | 10.1  |
| Southbound Left                        | A                   | 7.8   | A       | 7.9   |
| 3rd Avenue and Craftsman Court (3)     |                     |       |         |       |
| Eastbound Left                         | A                   | 7.3   | A       | 7.5   |
| Southbound Shared Left-Right           | A                   | 9.1   | A       | 9.3   |



Table 5 – Existing Level of Service and Delay – Signalized

| Intersection                                   | Existing Conditions |       |         |       |
|--|---------------------|-------|---------|-------|
|  | AM PEAK             |       | PM PEAK |       |
| Signalized Intersections                       | LOS                 | DELAY | LOS     | DELAY |
| Scottsdale Road and 3rd Avenue (5)             |                     |       |         |       |
| Overall Intersection                           | A                   | 4.0   | A       | 8.6   |
| Eastbound Left                                 | C                   | 24.0  | C       | 26.5  |
| Eastbound Shared Through-Right                 | C                   | 22.7  | B       | 19.9  |
| Westbound Left                                 | C                   | 23.3  | C       | 22.6  |
| Westbound Shared Through-Right                 | C                   | 23.3  | C       | 22.1  |
| Northbound Left                                | A                   | 0.3   | A       | 1.7   |
| Northbound Through                             | A                   | 0.4   | A       | 0.7   |
| Northbound Shared Through-Right                | A                   | 0.4   | A       | 0.7   |
| Southbound Left                                | A                   | 3.9   | A       | 5.8   |
| Southbound Through                             | A                   | 4.0   | A       | 7.5   |
| Southbound Right                               | A                   | 3.5   | A       | 5.6   |
| Goldwater Boulevard and Indian School Road (6) |                     |       |         |       |
| Overall Intersection                           | D                   | 37.0  | D       | 40.4  |
| Eastbound Left                                 | D                   | 51.7  | E       | 59.5  |
| Eastbound Through                              | C                   | 27.4  | C       | 28.2  |
| Eastbound Right                                | A                   | 9.9   | B       | 11.9  |
| Westbound Left                                 | E                   | 58.5  | E       | 59.5  |
| Westbound Through                              | D                   | 41.1  | D       | 47.6  |
| Westbound Shared Through-Right                 | D                   | 41.1  | D       | 47.6  |
| Northbound Left                                | D                   | 49.3  | E       | 75.4  |
| Northbound Through                             | D                   | 36.3  | C       | 34.9  |
| Northbound Shared Through-Right                | D                   | 36.2  | C       | 35.0  |
| Southbound Left                                | D                   | 51.0  | E       | 61.8  |
| Southbound Through                             | D                   | 38.0  | D       | 35.7  |
| Southbound Shared Through-Right                | D                   | 39.6  | D       | 37.7  |
| Marshall Way and Indian School Road (7)        |                     |       |         |       |
| Overall Intersection                           | A                   | 7.7   | A       | 9.1   |
| Eastbound Left                                 | A                   | 8.7   | A       | 7.1   |
| Eastbound Through                              | A                   | 6.8   | A       | 5.5   |
| Eastbound Shared Through-Right                 | A                   | 6.8   | A       | 5.5   |
| Westbound Left                                 | A                   | 8.9   | A       | 7.6   |
| Westbound Through                              | A                   | 6.9   | A       | 5.4   |
| Westbound Shared Through-Right                 | A                   | 6.8   | A       | 5.4   |
| Northbound Shared Left-Through-Right           | D                   | 38.3  | D       | 45.3  |
| Southbound Shared Left-Through-Right           | D                   | 38.4  | D       | 47.2  |



Table 6 – Existing Level of Service and Delay – Signalized - Continued

| Intersection                                     | Existing Conditions |       |         |       |
|--|---------------------|-------|---------|-------|
|  | AM PEAK             |       | PM PEAK |       |
| Signalized Intersections                         | LOS                 | DELAY | LOS     | DELAY |
| Scottsdale Road and Indian School Road (11)      |                     |       |         |       |
| Overall Intersection                             | D                   | 44.9  | D       | 38.2  |
| Eastbound Left                                   | D                   | 51.3  | D       | 36.2  |
| Eastbound Through                                | D                   | 54.4  | D       | 39.9  |
| Eastbound Shared Through-Right                   | D                   | 54.4  | D       | 39.9  |
| Westbound Left                                   | D                   | 36.8  | D       | 38.0  |
| Westbound Through                                | E                   | 65.4  | D       | 50.1  |
| Westbound Shared Through-Right                   | E                   | 65.3  | D       | 50.4  |
| Northbound Left                                  | C                   | 21.1  | D       | 39.2  |
| Northbound Through                               | C                   | 25.3  | D       | 38.3  |
| Northbound Shared Through-Right                  | C                   | 25.3  | D       | 38.6  |
| Southbound Left                                  | C                   | 25.7  | D       | 48.9  |
| Southbound Through                               | A                   | 7.3   | C       | 21.4  |
| Southbound Right                                 | A                   | 7.2   | B       | 18.8  |
| Buckboard Trail and Indian School Road (12)      |                     |       |         |       |
| Overall Intersection                             | A                   | 4.3   | B       | 11.1  |
| Eastbound Left                                   | A                   | 1.9   | A       | 4.1   |
| Eastbound Through                                | A                   | 0.4   | A       | 1.1   |
| Eastbound Shared Through-Right                   | A                   | 0.4   | A       | 1.0   |
| Westbound Left                                   | A                   | 1.5   | B       | 11.6  |
| Westbound Through                                | A                   | 2.3   | B       | 14.5  |
| Westbound Shared Through-Right                   | A                   | 2.3   | B       | 14.5  |
| Northbound Shared Left-Through-Right             | D                   | 54.2  | C       | 32.1  |
| Southbound Shared Left-Through                   | E                   | 55.1  | D       | 46.9  |
| Southbound Right                                 | E                   | 57.3  | C       | 28.2  |
| Drinkwater Boulevard and Indian School Road (13) |                     |       |         |       |
| Overall Intersection                             | D                   | 39.4  | E       | 72.1  |
| Eastbound Left                                   | D                   | 52.3  | D       | 44.8  |
| Eastbound Through                                | C                   | 29.3  | E       | 72.6  |
| Eastbound Shared Through-Right                   | C                   | 29.3  | E       | 72.6  |
| Westbound Left                                   | E                   | 61.0  | F       | 131.6 |
| Westbound Through                                | D                   | 39.2  | D       | 36.7  |
| Westbound Right                                  | C                   | 27.3  | C       | 31.1  |
| Northbound Left                                  | D                   | 46.7  | F       | 81.3  |
| Northbound Through                               | D                   | 39.5  | D       | 47.2  |
| Northbound Right                                 | D                   | 42.4  | F       | 198.6 |
| Southbound Left                                  | D                   | 46.1  | D       | 52.9  |
| Southbound Through                               | D                   | 36.3  | C       | 35.0  |
| Southbound Shared Through-Right                  | D                   | 36.4  | D       | 35.2  |



FIGURE 5 | EXISTING CAPACITY ANALYSIS



## 5. PROJECTED TRAFFIC

### 5.1. TRIP GENERATION

The trip generation was calculated utilizing the Institute of Transportation Engineers (ITE) publication entitled *Trip Generation, 10<sup>th</sup> Edition*. Land Use 826 – Specialty Retail Center has been removed from the most recent ITE publication. Hence, *Trip Generation, 9<sup>th</sup> Edition* of the ITE Publication was utilized for Land Use 826 – Specialty Retail Center. The ITE trip generation rates and fitted curve equations are based on studies that measure trip generation characteristics for various types of land uses. The rates are expressed in terms of trips per unit of land use type. This publication is the standard for the transportation engineering profession.

#### EXISTING DEVELOPMENT

According to the Maricopa County Assessor's website, the existing site is approximately 3.12-acres and comprised of three (3) developed parcels.

##### *Parcel 1 (1.19-acres)*

The west parcel includes the 65-room Howard Johnson by Wyndham Scottsdale Old Town motel.

##### *Parcel 2 (1.10-acres)*

The northeast parcel includes The Venue Scottsdale (event venue), The Scottsdale Comedy Spot (comedy club), Virtue Vice (cocktail bar), and Celebrations in Paper (invitation printing service).

The Venue Scottsdale operates as a bar and restaurant where it hosts a variety of events, primarily corporate events and meetings, along with live entertainment, weddings and other private events. The *Trip Generation, 10<sup>th</sup> Edition* as well as *9<sup>th</sup> Edition* does not provide trip generation rates or formulas for this land use type.

The following information regarding The Venue's business operations was provided through contact with the establishment.

Prior to COVID-19 conditions, The Venue typically hosted events Monday through Sunday, during various times throughout the day. Non-event days were not a common occurrence. Events may vary by the time of day, day of week as well as the size and scale of each event.

During current conditions, The Venue is closed and not expected to reopen for the remainder of the year.

In efforts to estimate the trips generated by The Venue, a combination of ITE Land Use 925 – Drinking Place and ITE Land Use 932 – High-Turnover (Sit-Down) Restaurant were used. The square footage utilized for the respective land use was categorized according to the *Space Guide* provided



on The Venue website. This guide provides detailed descriptions as well as dimensions for each event space within The Venue. See [Appendix G](#) for the Space Guide.

The event spaces within The Venue were categorized per land use as follows:

- Land Use 925 – Drinking Place: Billiards Room, Ballroom, Rooftop Deck, Observation Deck, Virtue Vice – 1<sup>st</sup> Floor, and Virtue Vice – 2<sup>nd</sup> Floor.
- Land Use 932 – High-Turnover (Sit-Down) Restaurant: Main Courtyard, Courtyard Bar, VIP Lounge.

#### *Parcel 3 (0.83-acres)*

The southeast parcel includes the Haver Building, a business complex, comprised of the Kimberly at Michael V. Salon, a beauty salon, Terés A Nail Bar, a nail salon, 40 Winks, a vacation home rental agency, Vape Sky, a vaporizer store, and Sixty First Place Architects, an architectural firm.

The 3.12-acre site is occupied by the following land uses:

- |                                       |                     |
|---------------------------------------|---------------------|
| • Motel                               | 65-rooms            |
| • Specialty Retail Center             | 18,030 square feet  |
| • Drinking Place                      | 16,8400 square feet |
| • High-Turnover (Sit-Down) Restaurant | 5,020 square feet   |

The trip generation for the existing land uses was calculated utilizing ITE Land Use 320 – Motel, Land Use 826 – Specialty Retail Center, ITE Land Use 925 – Drinking Place, and ITE Land Use 932 – High-Turnover (Sit-Down) Restaurant. Trip generation calculations are shown in [Table 7](#) below. Detailed trip generation calculations are provided in [Appendix G](#).

**Table 7 – Trip Generation – Existing Development**

| Land Use                            | ITE Code | Qty   | Unit        | Weekday | AM Peak Hour |       |     | PM Peak Hour |       |     |
|-------------------------------------|----------|-------|-------------|---------|--------------|-------|-----|--------------|-------|-----|
|                                     |          |       |             |         | Total        | Total | In  | Out          | Total | In  |
| Motel                               | 320      | 65    | Rooms       | 218     | 25           | 9     | 16  | 25           | 14    | 11  |
| Specialty Retail Center             | 826      | 18.03 | 1000 SF GFA | 800     | N/A          | N/A   | N/A | 49           | 22    | 27  |
| Drinking Place                      | 925      | 16.84 | 1000 SF GFA | N/A     | N/A          | N/A   | N/A | 192          | 127   | 65  |
| High-Turnover (Sit-Down) Restaurant | 932      | 5.02  | 1000 SF GFA | 563     | 50           | 28    | 22  | 49           | 30    | 19  |
|                                     |          |       | Total       | 1,581   | 75           | 37    | 38  | 315          | 193   | 122 |



## POTENTIAL DEVELOPMENT UNDER EXISTING ZONING

The existing site is currently zoned for Central Business (C-2) land uses. C-2 zoning is intended to permit uses for recurring shopping and service needs for multiple neighborhoods. A total lot area of 136,010 SF (3.12-acres), and a maximum floor-to-area (FAR) of 0.80, allows for 108,808 SF of developable area. Two (2) trip generation calculations were completed with potential uses with the build out under the existing zoning.

### Option 1

With a total lot area of 136,010 SF (3.12-acres), and a maximum floor-to-area ratio (FAR) of 0.80, a 108,808 square foot retail use was assumed for potential buildout.

Utilizing ITE Land Use 820 – Shopping Center, the trip generation for the potential development under existing zoning was calculated as shown in **Table 8** below. Detailed trip generation calculations are provided in **Appendix G**.

**Table 8 - Trip Generation (Existing Zoning- Option 1)**

| Land Use        | ITE Code | Qty    | Unit                    | Weekday | AM Peak Hour |       |    | PM Peak Hour |       |     |
|-----------------|----------|--------|-------------------------|---------|--------------|-------|----|--------------|-------|-----|
|                 |          |        |                         |         | Total        | Total | In | Out          | Total | In  |
| Shopping Center | 820      | 108.81 | 1000 SF GLA             | 6,368   | 207          | 129   | 78 | 579          | 278   | 301 |
|                 |          |        | Total - Existing Zoning | 6,368   | 207          | 129   | 78 | 579          | 278   | 301 |

### Option 2

The second option considers a 54,404 SF retail use (0.4 FAR) combined with two (2) 6,000 SF high-turnover (sit down) restaurants. This results in a total FAR of 0.49.

Utilizing ITE Land Use 820 – Shopping Center and Land Use 932 High Turnover (Sit Down) Restaurant, the trip generation for the potential development under existing zoning was calculated as shown in **Table 9** below. Detailed trip generation calculations are provided in **Appendix G**.

**Table 9 - Trip Generation (Existing Zoning- Option 2)**

| Land Use                            | ITE Code | Qty  | Unit                    | Weekday | AM Peak Hour |       |     | PM Peak Hour |       |     |
|-------------------------------------|----------|------|-------------------------|---------|--------------|-------|-----|--------------|-------|-----|
|                                     |          |      |                         |         | Total        | Total | In  | Out          | Total | In  |
| Shopping Center                     | 820      | 54.4 | 1000 SF GLA             | 3,974   | 179          | 111   | 68  | 347          | 167   | 180 |
| High-Turnover (Sit-Down) Restaurant | 932      | 12   | 1000 SF GFA             | 1,346   | 119          | 65    | 54  | 117          | 73    | 44  |
|                                     |          |      | Total - Existing Zoning | 5,320   | 298          | 176   | 122 | 464          | 240   | 224 |



## PROPOSED DEVELOPMENT

The Triangle development will include the following land uses:

- Multi-Family Residential                    230 units
  - 41 studio units
  - 98 one-bedroom units
  - 79 two-bedroom units
  - 12 three-bedroom units
- Hotel    168-rooms
- Restaurant                                    4,000 square feet

The trip generation for The Triangle development was calculated utilizing ITE Land Use 221 – Multifamily Housing (Mid-Rise), Land Use (310) – Hotel, and Land Use (932) – High-Turnover (Sit-Down) Restaurant. Trip generation calculations are shown in **Table 10** below. Detailed trip generation calculations are provided in **Appendix G**.

**Table 10 – Trip Generation – Proposed Development**

| Land Use                            | ITE Code | Qty | Unit           | Weekday | AM Peak Hour |    | PM Peak Hour |       |     |     |
|-------------------------------------|----------|-----|----------------|---------|--------------|----|--------------|-------|-----|-----|
|                                     |          |     |                | Total   | Total        | In | Out          | Total | In  | Out |
| Multifamily Housing (Mid-Rise)      | 221      | 230 | Dwelling Units | 1,252   | 77           | 20 | 57           | 99    | 60  | 39  |
| Hotel                               | 310      | 168 | Rooms          | 1,405   | 79           | 47 | 32           | 101   | 52  | 49  |
| High-Turnover (Sit-Down) Restaurant | 932      | 4   | 1000 SF GFA    | 449     | 40           | 22 | 18           | 39    | 24  | 15  |
|                                     |          |     | Total          | 3,106   | 196          | 89 | 107          | 239   | 136 | 103 |

The proposed development is anticipated to generate 3,106 weekday trips with 196 occurring during the AM peak hour and 239 trips during the PM peak hour.



## 5.2. TRIP GENERATION COMPARISON

### EXISTING DEVELOPMENT VS. THE TRIANGLE

A trip generation comparison between the existing developments currently occupying the 3.12-acre site and The Triangle development is shown in **Table 11**.

**Table 11 – Trip Generation Comparison  
(Existing Development vs. The Triangle)**

| Land Use                            | ITE Code | Qty   | Unit           | Weekday | AM Peak Hour |       |      | PM Peak Hour |       |      |
|-------------------------------------|----------|-------|----------------|---------|--------------|-------|------|--------------|-------|------|
|                                     |          |       |                |         | Total        | Total | In   | Out          | Total | In   |
| Motel                               | 320      | 65    | Rooms          | 218     | 25           | 9     | 16   | 25           | 14    | 11   |
| Specialty Retail Center             | 826      | 18.03 | 1000 SF GFA    | 800     | N/A          | N/A   | N/A  | 49           | 22    | 27   |
| Drinking Place                      | 925      | 16.84 | 1000 SF GFA    | N/A     | N/A          | N/A   | N/A  | 192          | 127   | 65   |
| High-Turnover (Sit-Down) Restaurant | 932      | 5.02  | 1000 SF GFA    | 563     | 50           | 28    | 22   | 49           | 30    | 19   |
| Total - Existing                    |          |       |                | 1,581   | 75           | 37    | 38   | 315          | 193   | 122  |
| Multifamily Housing (Mid-Rise)      | 221      | 230   | Dwelling Units | 1252    | 77           | 20    | 57   | 99           | 60    | 39   |
| Hotel                               | 310      | 168   | Rooms          | 1405    | 79           | 47    | 32   | 101          | 52    | 49   |
| High-Turnover (Sit-Down) Restaurant | 932      | 4     | 1000 SF GFA    | 449     | 40           | 22    | 18   | 39           | 24    | 15   |
| Total - Proposed                    |          |       |                | 3,106   | 196          | 89    | 107  | 239          | 136   | 103  |
| Difference                          |          |       |                | 1,525   | 121          | 52    | 69   | -76          | -57   | -19  |
| % Difference                        |          |       |                | 96%     | 161%         | 141%  | 182% | -24%         | -30%  | -16% |

The build out of The Triangle development is anticipated to generate 1,525 more weekday trips, with 121 more trips during the AM peak hour, and 76 (24%) fewer trips during the PM peak hour than the existing development.

The Venue is not considered to operate with “typical” daily traffic patterns due to the variations in event time, size, and scale of events. Therefore, its trip generation estimation may not capture all the trips associated with this land use. The existing trips to and from The Venue Scottsdale in reality may be greater or lesser than what is shown and calculated.



## EXISTING ZONING VS. THE TRIANGLE

### Option 1

A comparison between the trips generated with the buildout under the existing zoning for Option 1 – 0.8 FAR Shopping Center and The Triangle development is shown in **Table 12**.

**Table 12 - Trip Generation Comparison – Option 1  
(Existing Zoning – 0.8 FAR Retail vs The Triangle)**

| Land Use                            | ITE Code | Qty    | Unit           | Weekday                 | AM Peak Hour |       |      | PM Peak Hour |       |      |      |
|-------------------------------------|----------|--------|----------------|-------------------------|--------------|-------|------|--------------|-------|------|------|
|                                     |          |        |                |                         | Total        | Total | In   | Out          | Total | In   | Out  |
| Shopping Center                     | 820      | 108.81 | 1000 SF GLA    | 6,368                   | 207          | 129   | 78   | 579          | 278   | 301  |      |
|                                     |          |        |                | Total - Existing Zoning | 6,368        | 207   | 129  | 78           | 579   | 278  | 301  |
| Multifamily Housing (Mid-Rise)      | 221      | 230    | Dwelling Units | 1252                    | 77           | 20    | 57   | 99           | 60    | 39   |      |
| Hotel                               | 310      | 168    | Rooms          | 1405                    | 79           | 47    | 32   | 101          | 52    | 49   |      |
| High-Turnover (Sit-Down) Restaurant | 932      | 4      | 1000 SF GFA    | 449                     | 40           | 22    | 18   | 39           | 24    | 15   |      |
|                                     |          |        |                | Total - Proposed        | 3,106        | 196   | 89   | 107          | 239   | 136  | 103  |
|                                     |          |        |                | Difference              | -3,262       | -11   | -40  | 29           | -340  | -142 | -198 |
|                                     |          |        |                | % Difference            | -51%         | -5%   | -31% | 37%          | -59%  | -51% | -66% |

The buildout of The Triangle development is anticipated to generate 3,262 (51%) fewer weekday trips, with 11 (5%) fewer trips during the AM peak hour, and 340 (59%) fewer trips during the PM peak hour than the build-out of Option 1 under existing zoning.



## Option 2

A comparison between the trips generated with the buildout under the existing zoning for Option 2 – 0.4 FAR Shopping Center with High-Turnover (Sit-Down) Restaurants and The Triangle development is shown in **Table 13**.

**Table 13 - Trip Generation Comparison – Option 2  
(Existing Zoning – Retail and Restaurant vs The Triangle)**

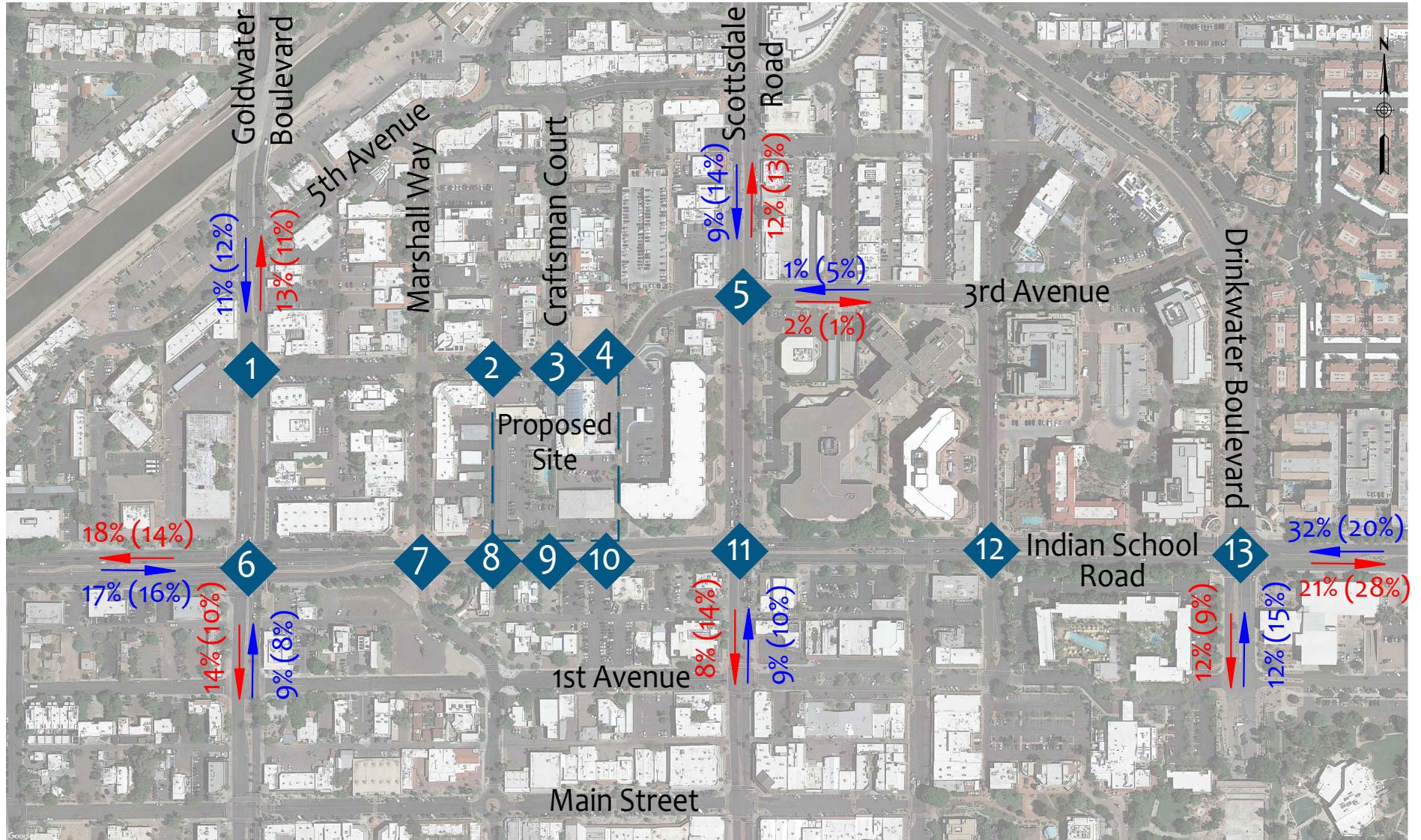
| Land Use                            | ITE Code | Qty  | Unit           | Weekday | AM Peak Hour |       |      | PM Peak Hour |       |      |
|-------------------------------------|----------|------|----------------|---------|--------------|-------|------|--------------|-------|------|
|                                     |          |      |                |         | Total        | Total | In   | Out          | Total | In   |
| Shopping Center                     | 820      | 54.4 | 1000 SF GLA    | 3,974   | 179          | 111   | 68   | 347          | 167   | 180  |
| High-Turnover (Sit-Down) Restaurant | 932      | 12   | 1000 SF GFA    | 1,346   | 119          | 65    | 54   | 117          | 73    | 44   |
| Total - Existing Zoning             |          |      |                | 5,320   | 298          | 176   | 122  | 464          | 240   | 224  |
| Multifamily Housing (Mid-Rise)      | 221      | 230  | Dwelling Units | 1,252   | 77           | 20    | 57   | 99           | 60    | 39   |
| Hotel                               | 310      | 168  | Rooms          | 1,405   | 79           | 47    | 32   | 101          | 52    | 49   |
| High-Turnover (Sit-Down) Restaurant | 932      | 4    | 1000 SF GFA    | 449     | 40           | 22    | 18   | 39           | 24    | 15   |
| Total - Proposed                    |          |      |                | 3,106   | 196          | 89    | 107  | 239          | 136   | 103  |
| Difference                          |          |      |                | -2,214  | -102         | -87   | -15  | -225         | -104  | -121 |
| % Difference                        |          |      |                | -42%    | -34%         | -49%  | -12% | -48%         | -43%  | -54% |

The buildout of The Triangle development is anticipated to generate 2,214 (42%) fewer weekday trips, with 102 (34%) fewer trips during the AM peak hour, and 225 (48%) fewer trips during the PM peak hour than the build-out of Option 2 under existing zoning.

## 5.3. TRIP DISTRIBUTION AND ASSIGNMENT

The trip distribution procedure determines the general pattern of travel for vehicles entering and leaving the proposed development. The trip distribution for The Triangle development is based on the distribution of the existing traffic. This project is being developed in a primarily developed area, so it can be assumed that the existing trip distribution will remain. The trip distribution is shown in **Figure 6**.

The trip assignment was generally based on proximity of the driveways, permitted turn movements, as well as ease and probability of use. The site generated traffic volumes are shown in **Figure 7**.



**FIGURE 6 | TRIP DISTRIBUTION**

### Legend

- ◆ Intersection
- Proposed Site
- AM(PM) Inbound Trip Distribution Percentages
- AM(PM) Outbound Trip Distribution Percentages

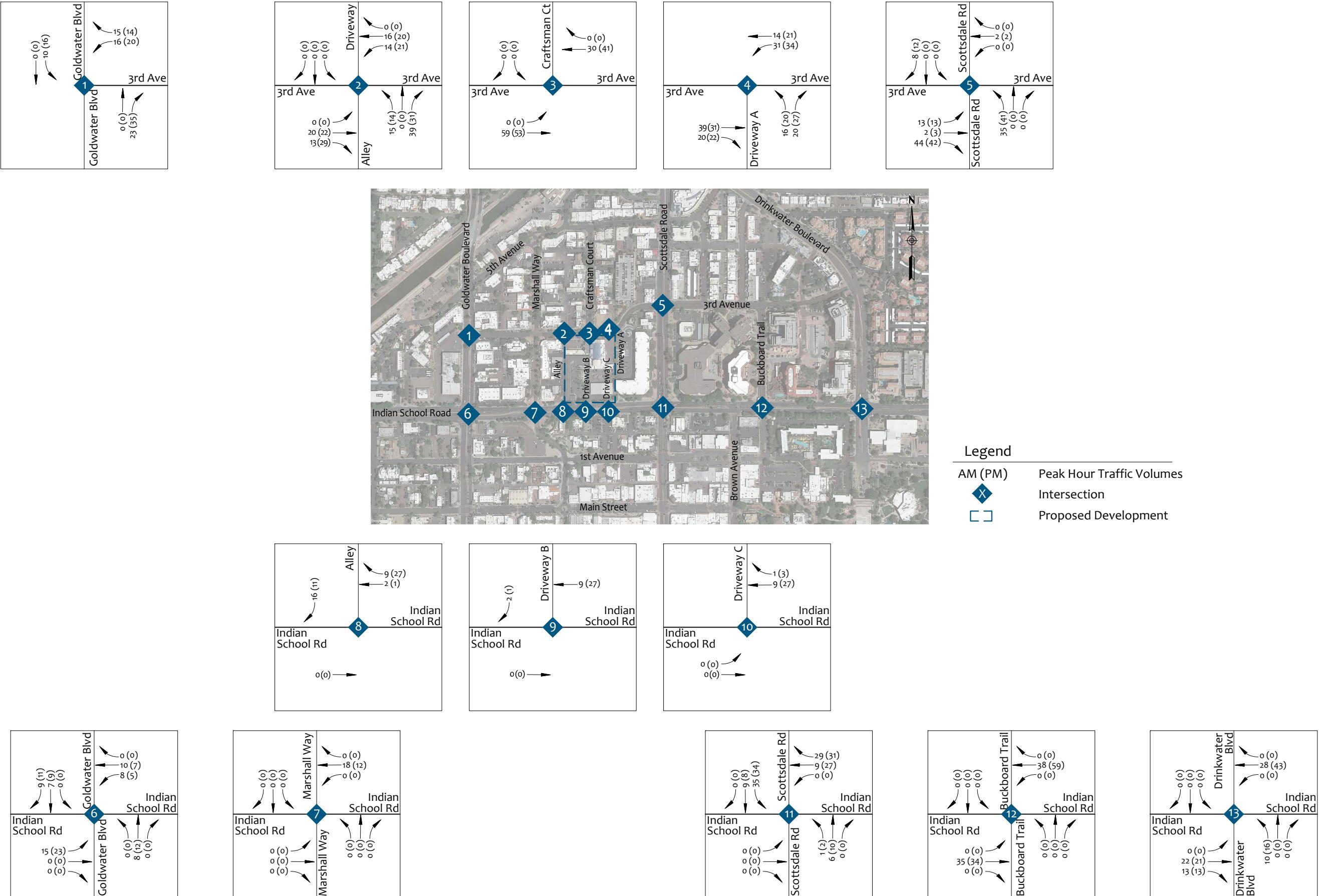


FIGURE 7 | SITE TRAFFIC VOLUMES



## 6. FUTURE CONDITIONS (YEAR 2024)

The Triangle development is anticipated to be constructed and ready to open in the year 2024. This section analyzes the effects the proposed development will have on the surrounding roadway network during the opening year of 2024.

### 6.1. YEAR 2024 BACKGROUND TRAFFIC VOLUMES

According to the 2019 Maricopa Associations of Governments (MAG) socioeconomic projections in the City of Scottsdale within the study area (RAZ 272), it is estimated that in the year 2018 the population was approximately 68,987. MAG estimates that the 2030 population of the surrounding area to be 71,910. This results in an approximate annual growth rate of 1.23%.

As a conservative approach, a 2.0% annual growth rate was utilized. See **Appendix H** for the MAG socioeconomic projections. See **Figure 8** for the year 2024 background traffic volumes.

### 6.2. YEAR 2024 BUILD TRAFFIC VOLUMES

When the site traffic (**Figure 7**) is added to the year 2024 background traffic (**Figure 8**), the result is the **2024 build** traffic volumes. This represents the traffic volumes with the build out of the proposed development. The year 2024 **build** traffic volumes are shown in **Figure 9**.

### 6.3. YEAR 2024 NO BUILD CAPACITY ANALYSIS

The capacity and level of service for the study area intersections were evaluated for the 2024 **no build** scenario. The signal timing splits were optimized and adjusted for the future traffic volumes. PHF was assumed to be 0.92.

The year 2024 **no build** AM and PM peak hour level of service and delay for unsignalized intersections are shown in **Table 14** and signalized intersections are shown in **Table 15** and **Table 16**. The detailed capacity analysis sheets can be found in **Appendix I**.

The results of the year 2024 no build capacity analysis are shown in **Figure 10**. All movements operate at a LOS D or better or are maintained at the existing level of service, with the exception of the following:

#### Indian School Road and Buckboard Trail (12) – Signalized

- SB shared left-through PM peak hour operates at LOS E

#### Indian School Road and Drinkwater Boulevard (13) – Signalized

- Overall intersection PM peak hour operates at LOS F
- EB left AM peak hour operates at LOS E



- EB through PM peak hour operates at LOS F
- EB shared through-right PM peak hour operates at LOS F
- NB right PM peak hour operates at LOS E
- SB left PM peak hour operates LOS F

#### 6.4. YEAR 2024 BUILD CAPACITY ANALYSIS

The capacity and level of service for the study area intersections were evaluated for the year 2024 build traffic volumes. See [Figure 9](#). The signal timing splits were optimized and adjusted for the future traffic volumes, and a PHF of 0.92 was used.

The year 2024 build AM and PM peak hour level of service and delay for unsignalized intersections are shown in [Table 14](#) and signalized intersections are shown in [Table 15](#) and [Table 16](#). The detailed capacity analysis sheets can be found in [Appendix I](#).

The results of the year 2024 build capacity analysis are shown in [Figure 10](#). All movements operate at a LOS D or better or are maintained at the year 2024 no build level of service.

**Table 14 – Year 2024 Level of Service and Delay – Unsignalized**

| Intersection                                  | 2024 No Build Conditions |       |         |       | 2024 Build Conditions |       |         |       |
|---|--------------------------|-------|---------|-------|-----------------------|-------|---------|-------|
|   | AM PEAK                  |       | PM PEAK |       | AM PEAK               |       | PM PEAK |       |
| Unsignalized Intersections                    | LOS                      | DELAY | LOS     | DELAY | LOS                   | DELAY | LOS     | DELAY |
| <b>Goldwater Boulevard and 3rd Avenue (1)</b> |                          |       |         |       |                       |       |         |       |
| Westbound Shared Left-Right                   | A                        | 9.8   | B       | 10.5  | B                     | 10.4  | B       | 13.7  |
| Southbound Left                               | A                        | 7.8   | A       | 8.0   | A                     | 7.9   | A       | 8.0   |
| <b>3rd Avenue and Alley (2)</b>               |                          |       |         |       |                       |       |         |       |
| Eastbound Left                                | -                        | -     | -       | -     | A                     | 0.0   | A       | 0.0   |
| Westbound Left                                | -                        | -     | -       | -     | A                     | 7.4   | A       | 7.5   |
| Northbound Shared Left-Through-Right          | -                        | -     | -       | -     | A                     | 9.3   | A       | 9.7   |
| Southbound Shared Left-Through-Right          | -                        | -     | -       | -     | A                     | 0.0   | A       | 0.0   |
| <b>3rd Avenue and Craftsman Court (3)</b>     |                          |       |         |       |                       |       |         |       |
| Eastbound Left                                | A                        | 7.3   | A       | 7.5   | A                     | 7.4   | A       | 7.6   |
| Southbound Shared Left-Right                  | A                        | 9.1   | A       | 9.3   | A                     | 9.6   | A       | 9.8   |
| <b>3rd Avenue and Driveway A (4)</b>          |                          |       |         |       |                       |       |         |       |
| Westbound Left                                | -                        | -     | -       | -     | A                     | 7.5   | A       | 7.6   |
| Northbound Shared Left-Through-Right          | -                        | -     | -       | -     | A                     | 9.7   | B       | 10.0  |
| <b>Indian School Road and Alley (8)</b>       |                          |       |         |       |                       |       |         |       |
| Southbound Right                              | -                        | -     | -       | -     | B                     | 11.6  | B       | 12.3  |
| <b>Indian School Road and Driveway B (9)</b>  |                          |       |         |       |                       |       |         |       |
| Southbound Right                              | -                        | -     | -       | -     | B                     | 11.4  | B       | 12.1  |



Table 15 – Year 2024 Level of Service and Delay – Signalized

| Intersection                                   | 2024 No Build Conditions |       |         |       | 2024 Build Conditions |       |         |       |
|--|--------------------------|-------|---------|-------|-----------------------|-------|---------|-------|
|  | AM PEAK                  |       | PM PEAK |       | AM PEAK               |       | PM PEAK |       |
| Signalized Intersections                       | LOS                      | DELAY | LOS     | DELAY | LOS                   | DELAY | LOS     | DELAY |
| Scottsdale Road and 3rd Avenue (5)             |                          |       |         |       |                       |       |         |       |
| Overall Intersection                           | A                        | 4.1   | A       | 8.8   | A                     | 5.1   | A       | 9.2   |
| Eastbound Left                                 | C                        | 23.9  | C       | 26.3  | C                     | 23.4  | C       | 25.8  |
| Eastbound Shared Through-Right                 | C                        | 22.4  | B       | 19.2  | C                     | 22.5  | B       | 19.2  |
| Westbound Left                                 | C                        | 23.2  | C       | 22.0  | C                     | 23.9  | C       | 22.8  |
| Westbound Shared Through-Right                 | C                        | 23.1  | C       | 21.4  | C                     | 22.3  | C       | 20.6  |
| Northbound Left                                | A                        | 0.4   | A       | 2.2   | A                     | 0.6   | A       | 3.4   |
| Northbound Through                             | A                        | 0.4   | A       | 0.6   | A                     | 0.4   | A       | 0.6   |
| Northbound Shared Through-Right                | A                        | 0.4   | A       | 0.6   | A                     | 0.4   | A       | 0.6   |
| Southbound Left                                | A                        | 4.1   | A       | 6.3   | A                     | 4.5   | A       | 6.7   |
| Southbound Through                             | A                        | 4.2   | A       | 8.5   | A                     | 4.6   | A       | 9.0   |
| Southbound Right                               | A                        | 3.6   | A       | 6.1   | A                     | 4.0   | A       | 6.6   |
| Goldwater Boulevard and Indian School Road (6) |                          |       |         |       |                       |       |         |       |
| Overall Intersection                           | D                        | 38.7  | D       | 42.2  | D                     | 39.3  | D       | 42.8  |
| Eastbound Left                                 | D                        | 52.0  | D       | 54.3  | D                     | 53.9  | D       | 54.3  |
| Eastbound Through                              | C                        | 31.6  | C       | 33.3  | C                     | 32.5  | C       | 32.5  |
| Eastbound Right                                | B                        | 10.9  | B       | 10.5  | B                     | 11.0  | B       | 10.1  |
| Westbound Left                                 | E                        | 58.6  | E       | 58.8  | E                     | 58.8  | E       | 59.0  |
| Westbound Through                              | D                        | 46.8  | D       | 51.1  | D                     | 47.2  | D       | 51.3  |
| Westbound Shared Through-Right                 | D                        | 46.7  | D       | 51.0  | D                     | 47.1  | D       | 51.2  |
| Northbound Left                                | D                        | 47.7  | D       | 47.6  | D                     | 46.9  | D       | 47.4  |
| Northbound Through                             | C                        | 33.2  | D       | 37.1  | C                     | 33.3  | D       | 38.4  |
| Northbound Shared Through-Right                | C                        | 33.2  | D       | 37.2  | C                     | 33.3  | D       | 38.5  |
| Southbound Left                                | D                        | 51.2  | D       | 49.1  | D                     | 50.4  | D       | 49.0  |
| Southbound Through                             | D                        | 36.7  | D       | 40.4  | D                     | 36.9  | D       | 42.0  |
| Southbound Shared Through-Right                | D                        | 38.2  | D       | 43.6  | D                     | 38.5  | D       | 45.8  |
| Marshall Way and Indian School Road (7)        |                          |       |         |       |                       |       |         |       |
| Overall Intersection                           | A                        | 10.0  | B       | 14.9  | B                     | 10.1  | B       | 15.0  |
| Eastbound Left                                 | B                        | 11.9  | B       | 17.7  | B                     | 12.1  | B       | 17.9  |
| Eastbound Through                              | A                        | 9.0   | B       | 12.9  | A                     | 9.0   | B       | 12.9  |
| Eastbound Shared Through-Right                 | A                        | 9.0   | B       | 12.9  | A                     | 9.0   | B       | 12.9  |
| Westbound Left                                 | B                        | 12.3  | B       | 19.0  | B                     | 12.4  | B       | 19.3  |
| Westbound Through                              | A                        | 9.3   | B       | 12.9  | A                     | 9.5   | B       | 13.2  |
| Westbound Shared Through-Right                 | A                        | 9.2   | B       | 12.9  | A                     | 9.5   | B       | 13.2  |
| Northbound Shared Left-Through-Right           | C                        | 34.5  | C       | 31.5  | C                     | 34.5  | C       | 31.5  |
| Southbound Shared Left-Through-Right           | C                        | 34.6  | C       | 32.4  | C                     | 34.6  | C       | 32.4  |



Table 16 – Year 2024 Level of Service and Delay – Signalized - Continued

| Intersection                                     | 2024 No Build Conditions |       |         |       | 2024 Build Conditions |       |         |       |
|--|--------------------------|-------|---------|-------|-----------------------|-------|---------|-------|
|  | AM PEAK                  |       | PM PEAK |       | AM PEAK               |       | PM PEAK |       |
| Signalized Intersections                         | LOS                      | DELAY | LOS     | DELAY | LOS                   | DELAY | LOS     | DELAY |
| Scottsdale Road and Indian School Road (11)      |                          |       |         |       |                       |       |         |       |
| Overall Intersection                             | C                        | 27.6  | D       | 43.5  | C                     | 32.8  | D       | 42.5  |
| Eastbound Left                                   | C                        | 30.1  | D       | 49.1  | D                     | 38.8  | D       | 47.7  |
| Eastbound Through                                | A                        | 3.7   | D       | 53.3  | C                     | 23.2  | D       | 42.0  |
| Eastbound Shared Through-Right                   | A                        | 3.7   | D       | 53.3  | C                     | 23.2  | D       | 42.0  |
| Westbound Left                                   | B                        | 16.2  | D       | 44.6  | C                     | 25.2  | D       | 44.0  |
| Westbound Through                                | C                        | 29.1  | D       | 35.8  | C                     | 32.2  | D       | 42.8  |
| Westbound Shared Through-Right                   | C                        | 29.1  | D       | 35.8  | C                     | 32.2  | D       | 43    |
| Northbound Left                                  | D                        | 39.6  | D       | 52.8  | D                     | 39.3  | D       | 52.5  |
| Northbound Through                               | D                        | 42.6  | D       | 53.4  | D                     | 44.1  | D       | 54.2  |
| Northbound Shared Through-Right                  | D                        | 42.8  | D       | 54.0  | D                     | 44.4  | D       | 54.8  |
| Southbound Left                                  | D                        | 45.0  | D       | 50.7  | D                     | 44.2  | D       | 52.1  |
| Southbound Through                               | D                        | 41.1  | C       | 32.4  | C                     | 30.4  | C       | 30.1  |
| Southbound Right                                 | D                        | 38.9  | C       | 28.0  | C                     | 28.8  | C       | 26.1  |
| Buckboard Trail and Indian School Road (12)      |                          |       |         |       |                       |       |         |       |
| Overall Intersection                             | A                        | 4.5   | B       | 11.2  | A                     | 4.5   | B       | 11    |
| Eastbound Left                                   | A                        | 2.7   | A       | 4.6   | A                     | 3.0   | A       | 4.9   |
| Eastbound Through                                | A                        | 0.4   | A       | 1.1   | A                     | 0.5   | A       | 1.1   |
| Eastbound Shared Through-Right                   | A                        | 0.4   | A       | 1.0   | A                     | 0.4   | A       | 1     |
| Westbound Left                                   | A                        | 1.6   | B       | 10.8  | A                     | 1.6   | B       | 10.2  |
| Westbound Through                                | A                        | 2.5   | B       | 13.5  | A                     | 2.5   | B       | 13    |
| Westbound Shared Through-Right                   | A                        | 2.5   | B       | 13.4  | A                     | 2.5   | B       | 12.9  |
| Northbound Shared Left-Through-Right             | D                        | 54.3  | C       | 32.8  | D                     | 54.3  | C       | 33.3  |
| Southbound Shared Left-Through                   | E                        | 55.2  | E       | 55.7  | E                     | 55.2  | E       | 57.6  |
| Southbound Right                                 | E                        | 57.9  | C       | 29.0  | E                     | 57.9  | C       | 29.8  |
| Drinkwater Boulevard and Indian School Road (13) |                          |       |         |       |                       |       |         |       |
| Overall Intersection                             | D                        | 36.5  | F       | 82.5  | D                     | 39.0  | F       | 83.5  |
| Eastbound Left                                   | E                        | 56.8  | D       | 48.8  | E                     | 62.9  | D       | 49.8  |
| Eastbound Through                                | C                        | 32.4  | F       | 91.6  | D                     | 44.0  | F       | 97.0  |
| Eastbound Shared Through-Right                   | C                        | 32.4  | F       | 91.6  | D                     | 44.0  | F       | 97.4  |
| Westbound Left                                   | D                        | 43.3  | F       | 96.5  | D                     | 45.4  | F       | 102.2 |
| Westbound Through                                | C                        | 31.7  | C       | 29.5  | C                     | 33.1  | C       | 30.5  |
| Westbound Right                                  | C                        | 22.2  | C       | 25.0  | C                     | 22.5  | C       | 25.2  |
| Northbound Left                                  | D                        | 47.6  | D       | 52.6  | D                     | 49.8  | D       | 52.4  |
| Northbound Through                               | D                        | 42.7  | D       | 50.4  | D                     | 39.7  | D       | 49.2  |
| Northbound Right                                 | D                        | 47.0  | F       | 263.9 | D                     | 43.0  | F       | 248.8 |
| Southbound Left                                  | D                        | 49.6  | F       | 81.8  | D                     | 52.0  | F       | 93.7  |
| Southbound Through                               | D                        | 41.5  | D       | 44.8  | D                     | 39.3  | D       | 46.7  |
| Southbound Shared Through-Right                  | D                        | 41.6  | D       | 45.1  | D                     | 39.4  | D       | 47.0  |

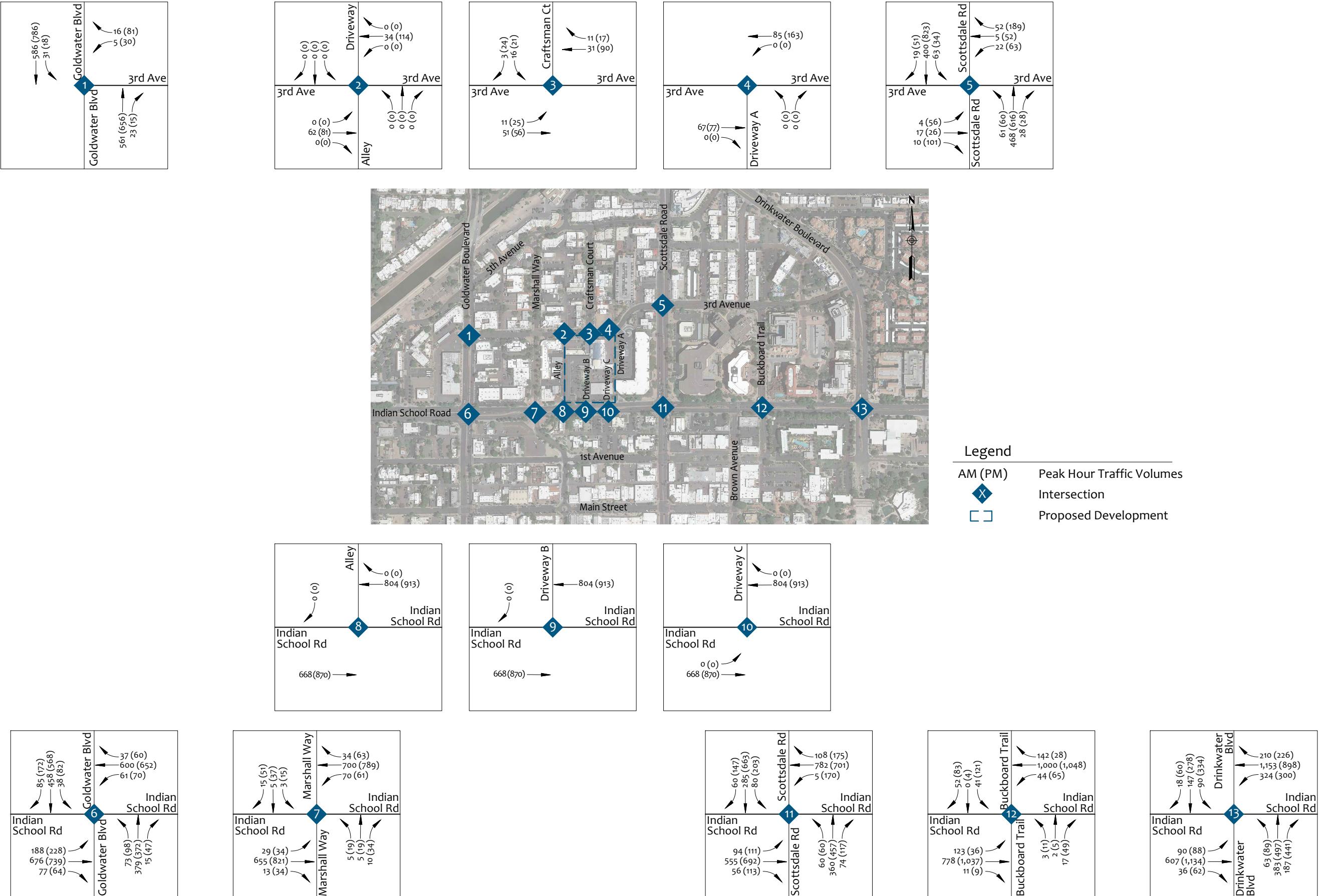


FIGURE 8 | 2024 NO BUILD TRAFFIC VOLUMES

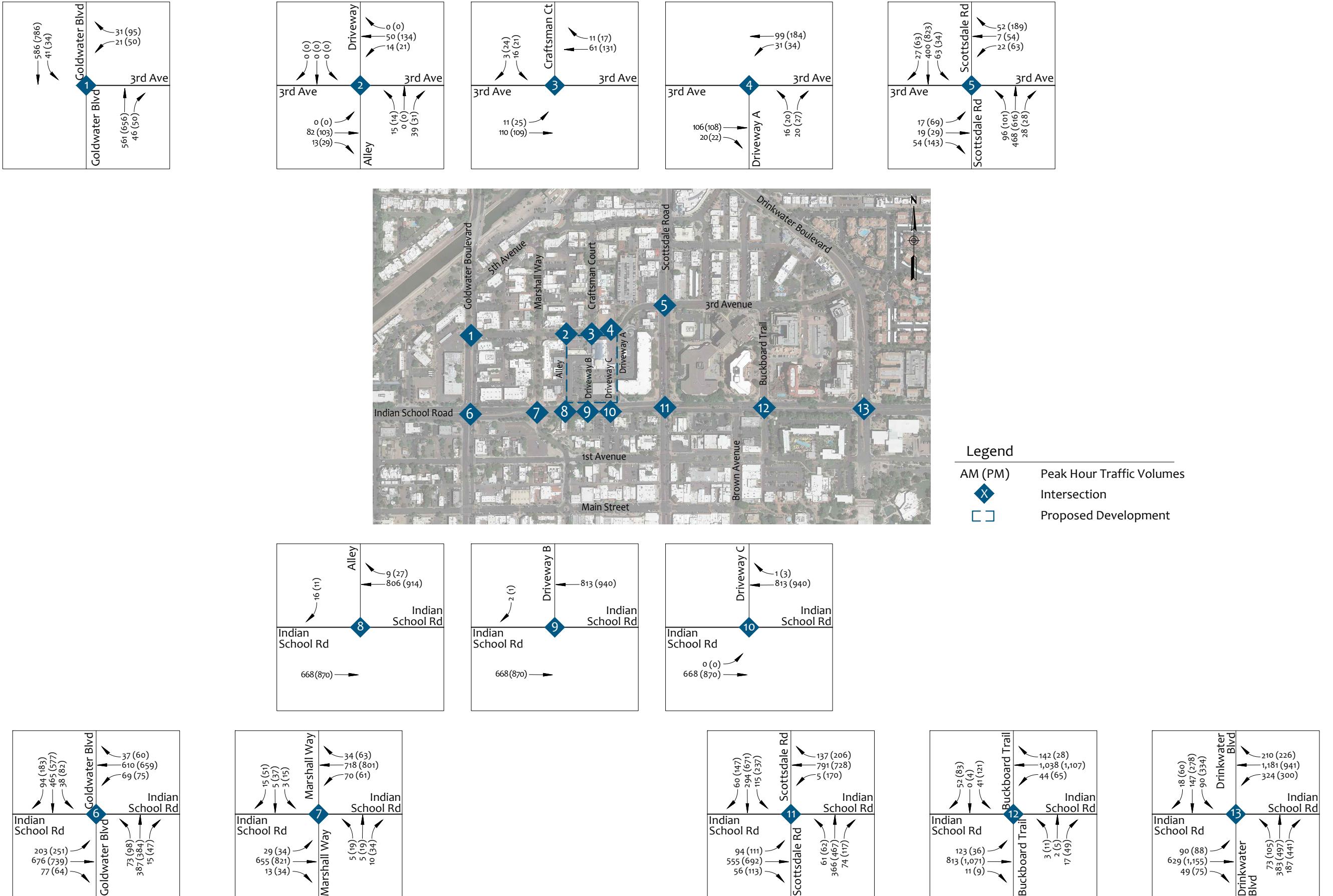


FIGURE 9 | 2024 BUILD TRAFFIC VOLUMES



FIGURE 10 | YEAR 2024 NO BUILD CAPACITY ANALYSIS



FIGURE 11 | YEAR 2024 BUILD CAPACITY ANALYSIS



## 7. RECOMMENDATIONS & CONCLUSIONS

The Triangle development will be located approximately 300 feet west of the northwest corner (NWC) of Indian School Road and Scottsdale Road in Scottsdale, Arizona.

The proposed development will include the following land uses:

- |                            |                   |
|----------------------------|-------------------|
| • Multi-Family Residential | 230 units         |
| 41 studio units            |                   |
| 98 one-bedroom units       |                   |
| 79 two-bedroom units       |                   |
| 12 three-bedroom units     |                   |
| • Hotel                    | 168-rooms         |
| • Restaurant               | 4,000 square feet |

### Existing Capacity Analysis

The AM and PM peak hour existing conditions capacity analysis were completed for the existing study intersections. The results of the capacity analysis reveal the following location with an existing level of service (LOS) E or F:

#### Indian School Road and Goldwater Boulevard (6) – Signalized

- EB left PM peak hour operates at LOS E
- WB left AM and PM peak hours operate at LOS E
- NB left PM peak hour operates at LOS E
- SB left PM peak hour operates at LOS E

#### Indian School Road and Scottsdale Road (11) – Signalized

- WB through AM peak hour operates at LOS E
- WB shared through-right AM peak hour operates at LOS E

#### Indian School Road and Buckboard Trail and Indian School Road (12) – Signalized

- SB shared left-through AM peak hour operates at LOS E
- SB right AM peak hour operates at LOS E

#### Drinkwater Boulevard and Indian School Road (13) – Signalized

- Overall PM peak hour operates at LOS E
- EB through PM peak hour operates at LOS E
- EB shared through-right PM peak hour operates at LOS E
- WB left AM and PM peak hours operate at LOS E and F, respectively
- NB left PM peak hour operates at LOS F
- NB right PM peak hour operates at LOS F



### Trip Generation

The proposed development is anticipated to generate 3,106 weekday trips, with 196 trips occurring during the AM peak hour and 239 trips occurring during the PM peak hour.

### Future Conditions - Year 2024

Year 2024 analyses was completed with and without the build out of the proposed development. An annual growth rate of 2.0% was applied to the existing traffic volumes.

A capacity analysis was completed for both the AM and PM peak hours for year 2024, with and without the build out of the proposed development. All movements operate at a LOS D or better or are maintained at the year 2024 no build level of service with the build out of the proposed development. Therefore, it is anticipated that The Triangle development will result in minimal traffic related impacts to the surrounding roadway network.

### Recommendations

The recommendations with the build out of The Triangle development include:

#### Signal Timing

As with any new development and potential change in traffic patterns, the following is recommended:

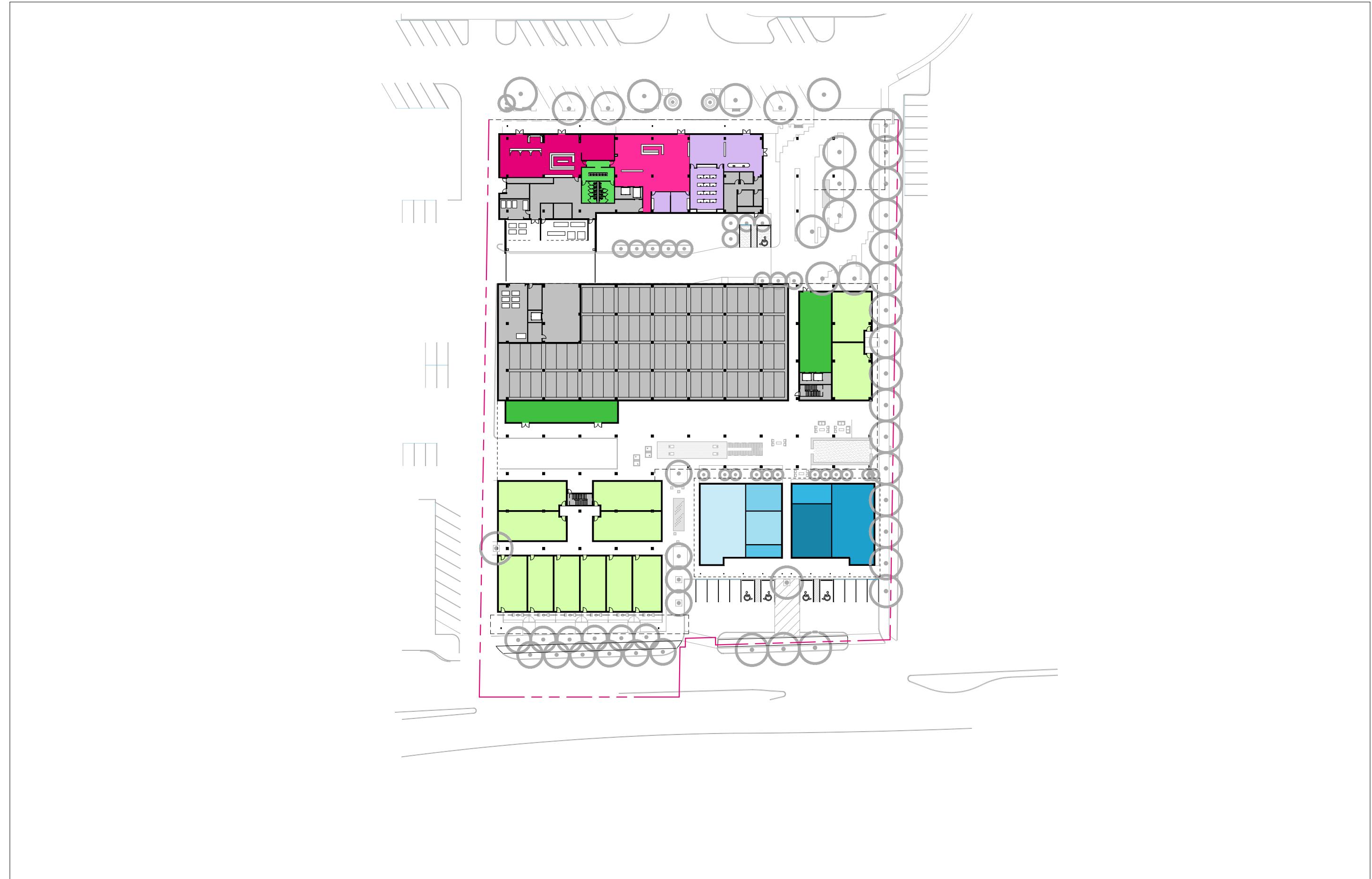
- **Monitor and Adjust Signal Timing**

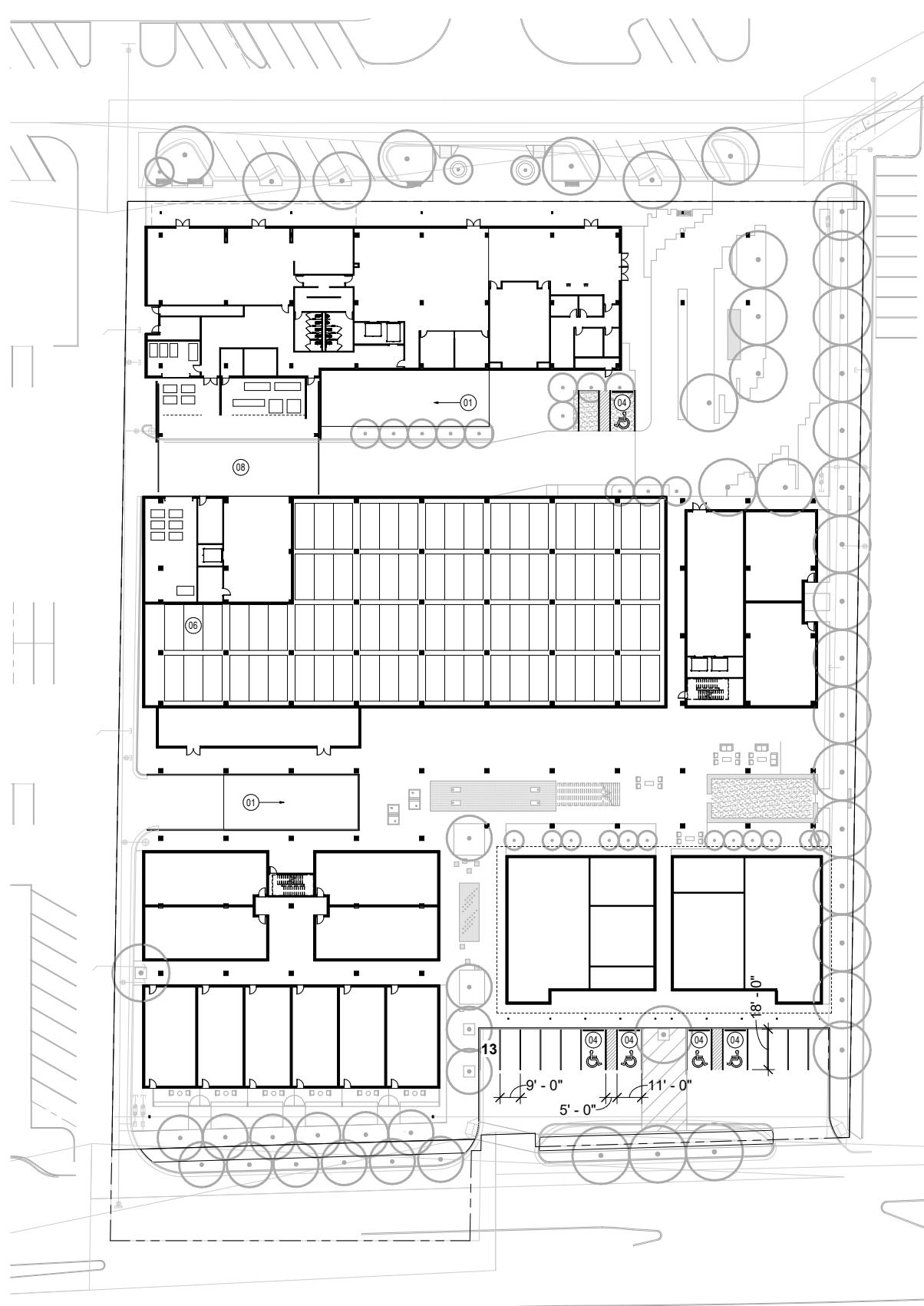
Monitor traffic patterns in the area and if necessary, adjust nearby signal timing



## Appendix A – Proposed Site Plan

A







## Appendix B – Crash Data

B

| Report  | Date   | Time | N-S Street | Type | E-W Street | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |            |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1905545 | 190312 | 1715 | GOLDWATER  | BL   | 3          | RD   | W        | 100       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   | MULTI VEH 3 |

| Report  | Date   | Time | N-S Street | Type | E-W Street | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |            |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1717619 | 170809 | 1653 | CRAFTSMAN  | CT   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 6         | 1  | 1      | 1  | WB        | SB | 2                   |             |
| 1818703 | 180824 | 2044 | CRAFTSMAN  | CT   | 3          | RD   | AT       |           | 2   | 2  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | WB        | WB | 4                   | MULTI VEH 3 |
| 1821194 | 180927 | 1631 | CRAFTSMAN  | CT   | 3          | RD   | AT       |           | 2   | 1  | 2  | 0         | 0  | 6         | 1  | 4      | 1  | NB        | WB | 3                   |             |

| Report  | Date   | Time | N-S Street | Type | E-W Street | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments            |
|---------|--------|------|------------|------|------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|---------------------|
|         |        |      |            |      |            |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |                     |
| 1710744 | 170512 | 1325 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 1         | 1  | 1      | 1  | NB        | NB | 4                   |                     |
| 1710777 | 170512 | 2105 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 3   | 3  | 1  | 0         | 0  | 7         | 1  | 4      | 1  | SB        | EB | 3                   |                     |
| 1720617 | 170917 | 1609 | SCOTTSDALE | RD   | 3          | RD   | W        | 55        | 99  | 99 | 1  | 99        | 0  | 12        | 1  | 8      | 3  | WB        | WB | 4                   | HIT AND RUN         |
| 1721573 | 170929 | 1622 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 2   | 1  | 2  | 0         | 0  | 2         | 1  | 1      | 3  | WB        | WB | 4                   | MULTI VEH 3         |
| 1725599 | 171118 | 1641 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 2      | 3  | EB        | EB | 4                   |                     |
| 1801615 | 180122 | 1215 | SCOTTSDALE | RD   | 3          | AV   | W        | 80        | 99  | 1  | 99 | 0         | 0  | 2         | 1  | 7      | 5  | EB        | EB | 6                   |                     |
| 1804082 | 180221 | 1424 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 2         | 1  | 10     | 14 | WB        | 99 | 97                  |                     |
| 1804312 | 180224 | 1700 | SCOTTSDALE | RD   | 3          | RD   | E        | 30        | 2   | 1  | 2  | 0         | 0  | 97        | 1  | 8      | 2  | EB        | EB | 4                   |                     |
| 1806664 | 180324 | 1700 | SCOTTSDALE | RD   | 3          | AV   | AT       |           | 1   | 1  | 1  | 4         | 0  | 9         | 1  | 17     | 1  | EB        | NB | 97                  | CAR/PEDESTRIAN, DUI |
| 1807805 | 180407 | 1249 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 4  | SB        | SB | 4                   |                     |
| 1811353 | 180522 | 1108 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 4      | 1  | NB        | SB | 3                   |                     |
| 1823005 | 181022 | 0312 | SCOTTSDALE | RD   | 3          | AV   | AT       |           | 2   | 1  | 2  | 4         | 0  | 2         | 1  | 1      | 3  | NB        | NB | 4                   | DUI                 |
| 1823996 | 181104 | 1537 | SCOTTSDALE | RD   | 3          | AV   | AT       |           | 2   | 1  | 2  | 0         | 0  | 6         | 1  | 1      | 11 | SB        | WB | 2                   |                     |
| 1824774 | 181115 | 1529 | SCOTTSDALE | RD   | 3          | RD   | E        | 55        | 3   | 3  | 1  | 0         | 0  | 97        | 1  | 1      | 3  | EB        | EB | 4                   |                     |
| 1901878 | 190125 | 2137 | SCOTTSDALE | RD   | 3          | RD   | W        | 54        | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | WB        | WB | 4                   | MULTI VEH 3         |
| 1908106 | 190414 | 2245 | SCOTTSDALE | RD   | 3          | RD   | N        | 10        | 1   | 1  | 1  | 0         | 0  | 4         | 1  | 1      | 3  | SB        | SB | 4                   |                     |
| 1912710 | 190614 | 1501 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |                     |
| 1918140 | 190829 | 1556 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 4         | 0  | 2         | 1  | 1      | 1  | SB        | SB | 4                   | DUI                 |
| 1920547 | 191001 | 1251 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 4      | 1  | SB        | NB | 2                   |                     |
| 1921282 | 191011 | 1641 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 99        | 99 | 4      | 4  | SB        | SB | 6                   |                     |
| 1924879 | 191130 | 1211 | SCOTTSDALE | RD   | 3          | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 2  | EB        | EB | 4                   |                     |

| Report  | Date   | Time | N-S Street | Type | E-W Street    | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|---------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |               |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1702337 | 170129 | 2224 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | W        | 30        | 2   | 1  | 2  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   | MULTI VEH 3 |
| 1705942 | 170313 | 1947 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1709682 | 170429 | 0752 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 1  | EB        | SB | 2                   |             |
| 1713483 | 170616 | 1554 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | E        | 100       | 99  | 99 | 1  | 99        | 0  | 99        | 1  | 1      | 8  | WB        | WB | 6                   | HIT AND RUN |
| 1717304 | 170805 | 1657 | GOLDWATER  | BL   | INDIAN SCHOOL | AV   | AT       |           | 1   | 1  | 1  | 0         | 0  | 1         | 1  | 1      | 4  | NB        | WB | 2                   |             |
| 1720360 | 170914 | 1300 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | E        | 15        | 2   | 1  | 2  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1724907 | 171109 | 0940 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 3   | 1  | 3  | 0         | 0  | 20        | 1  | 4      | 97 | WB        | EB | 3                   | CAR/BICYCLE |
| 1800115 | 180102 | 1327 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | E        | 50        | 1   | 1  | 1  | 0         | 0  | 12        | 1  | 8      | 3  | WB        | WB | 6                   |             |
| 1800116 | 180102 | 1343 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 97        | 1  | 1      | 4  | SB        | SB | 4                   |             |
| 1804336 | 180224 | 2256 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | W        | 100       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1806053 | 180317 | 1431 | GOLDWATER  | BL   | INDIAN SCHOOL | AV   | AT       |           | 1   | 1  | 1  | 0         | 0  | 4         | 1  | 1      | 3  | SB        | SB | 4                   |             |
| 1807883 | 180408 | 1342 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 2   | 1  | 2  | 0         | 0  | 99        | 99 | 1      | 1  | EB        | SB | 2                   |             |
| 1808431 | 180415 | 1348 | GOLDWATER  | BL   | INDIAN SCHOOL | AV   | AT       |           | 3   | 3  | 1  | 0         | 0  | 97        |    | 17     | 4  | EB        | SB | 3                   | CAR/BICYCLE |
| 1816288 | 180724 | 2049 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 6         | 1  | 1      | 4  | SB        | EB | 3                   |             |
| 1816579 | 180728 | 1232 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | N        | 50        | 1   | 1  | 1  | 0         | 0  | 12        | 1  | 8      | 1  | SB        | SB | 6                   |             |
| 1816926 | 180802 | 1314 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 99  | 99 | 1  | 99        | 0  | 2         | 1  | 2      | 3  | EB        | EB | 4                   | HIT AND RUN |
| 1816955 | 180802 | 1735 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 4         | 0  | 2         | 1  | 1      | 1  | SB        | NB | 5                   | DUI         |
| 1818269 | 180819 | 0321 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | N        | 100       | 1   | 1  | 1  | 0         | 0  | 1         | 1  | 1      | 8  | SB        | SB | 6                   |             |
| 1823699 | 181031 | 1327 | GOLDWATER  | BL   | INDIAN SCHOOL | AV   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 4      | 2  | WB        | WB | 3                   |             |
| 1826793 | 181212 | 1445 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | S        | 54        | 1   | 1  | 1  | 0         | 0  | 4         | 1  | 2      | 3  | NB        | NB | 4                   |             |
| 1827014 | 181215 | 0202 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 4      | 1  | EB        | WB | 2                   |             |
| 1828076 | 181230 | 1542 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 2   | 2  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | NB        | NB | 4                   |             |
| 1901155 | 190116 | 1630 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 99  | 99 | 1  | 99        | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   | HIT AND RUN |
| 1901455 | 190120 | 0603 | GOLDWATER  | BL   | INDIAN SCHOOL | AV   | AT       |           | 1   | 1  | 1  | 0         | 0  | 1         | 1  | 1      | 1  | SB        | SB | 6                   |             |
| 1904261 | 190223 | 1954 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 4   | 1  | 4  | 0         | 0  | 1         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1904528 | 190227 | 1134 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 4   | 1  | 4  | 0         | 0  | 1         | 1  | 5      | 1  | WB        | WB | 6                   |             |
| 1907697 | 190409 | 1416 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 1         | 1  | 4      | 1  | NB        | WB | 5                   |             |
| 1907731 | 190410 | 0507 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 6         | 1  | 1      | 1  | EB        | NB | 2                   |             |
| 1908902 | 190424 | 1822 | GOLDWATER  | BL   | INDIAN SCHOOL | AV   | AT       |           | 99  | 99 | 1  | 99        | 0  | 13        | 1  | 7      | 1  | EB        | NB | 6                   | HIT AND RUN |
| 1917770 | 190824 | 1412 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 3   | 3  | 1  | 0         | 0  | 4         | 1  | 1      | 2  | NB        | NB | 4                   |             |
| 1920685 | 191003 | 1323 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 99  | 99 | 1  | 99        | 0  | 2         | 1  | 1      | 1  | SB        | SB | 6                   | HIT AND RUN |
| 1923569 | 191110 | 1927 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | NB        | NB | 4                   | MULTI VEH 3 |
| 1924338 | 191122 | 0723 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 2   | 2  | 2  | 0         | 0  | 20        | 1  | 4      | 1  | SB        | EB | 3                   |             |
| 1925508 | 191208 | 2010 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1926923 | 191229 | 1118 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | W        | 25        | 3   | 3  | 1  | 97        | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   | MULTI VEH 3 |

| Report  | Date   | Time | N-S Street | Type | E-W Street    | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|---------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |               |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1703375 | 170210 | 1416 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 4      | 1  | SB        | EB | 2                   |             |
| 1710021 | 170503 | 1040 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | AT       |           | 99  | 99 | 1  | 99        | 0  | 12        | 1  | 8      | 1  | EB        | EB | 6                   | HIT AND RUN |
| 1723529 | 171024 | 1420 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | AT       |           | 4   | 3  | 4  | 0         | 0  | 20        | 1  | 4      | 1  | WB        | EB | 3                   |             |
| 1728527 | 171226 | 1942 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 6         | 1  | 1      | 4  | WB        | SB | 3                   |             |
| 1800884 | 180112 | 1632 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 6         | 1  | 1      | 1  | SB        | EB | 2                   |             |
| 1810915 | 180516 | 1650 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 12        | 1  | 8      | 1  | EB        | EB | 6                   |             |
| 1821342 | 180929 | 0904 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | AT       |           | 2   | 1  | 2  | 4         | 0  | 2         | 1  | 1      | 1  | EB        |    | 3                   | DUI         |
| 1826151 | 181204 | 1421 | MARSHALL   | WY   | INDIAN SCHOOL | AV   | E        | 50        | 1   | 1  | 99 | 0         | 97 | 1         | 10 | 14     | 99 |           | 97 | HIT AND RUN         |             |

| Report  | Date   | Time | N-S Street | Type | E-W Street    | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|---------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |               |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1700282 | 170104 | 1724 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 4      | 1  | SB        | NB | 2                   |             |
| 1710307 | 170506 | 1257 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 1         | 1  | 1      | 2  | EB        | EB | 4                   | MULTI VEH 3 |
| 1714694 | 170702 | 1617 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 4         | 0  | 2         | 1  | 1      | 3  | SB        | SB | 4                   | DUI         |
| 1807003 | 180329 | 0428 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 6         | 1  | 1      | 1  | SB        | WB | 2                   |             |
| 1821115 | 180926 | 1357 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 97        | 1  | 8      | 1  | EB        | EB | 6                   |             |
| 1822322 | 181012 | 1922 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | S        | 50        | 1   | 1  |    | 99        |    | 2         |    | 1      |    | SB        |    | 1                   | HIT AND RUN |
| 1824865 | 181116 | 2127 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | SB        | SB | 4                   | MULTI VEH 3 |
| 1904611 | 190228 | 1459 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | SB        | SB | 4                   |             |
| 1909254 | 190429 | 1420 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 1         | 1  | 4      | 1  | SB        | NB | 2                   |             |
| 1909975 | 190509 | 0609 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 99  | 99 | 1  | 99        | 0  | 2         | 1  | 2      | 3  | SB        | SB | 4                   | HIT AND RUN |
| 1910084 | 190510 | 1159 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | E        | 50        | 99  | 99 | 1  | 99        | 0  | 99        | 1  | 8      | 1  | WB        | WB | 4                   | HIT AND RUN |
| 1915542 | 190724 | 1547 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 3   | 1  | 3  | 0         | 0  | 20        | 99 | 5      | 17 | NB        | SB | 2                   | CAR/BICYCLE |
| 1916661 | 190809 | 1544 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 99  | 99 | 99 | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1924100 | 191118 | 1209 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 8      | 1  | EB        | EB | 4                   |             |

| Report  | Date   | Time | N-S Street | Type | E-W Street | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |            |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1700607 | 170109 | 0218 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 2   | 1  | 2  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   | MULTI VEH 3 |
| 1704322 | 170221 | 1808 | SCOTTSDALE | RD   | SCHOOL     | RD   | W        | 30        | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 2  | EB        | EB | 4                   |             |
| 1704637 | 170225 | 2118 | SCOTTSDALE | RD   | SCHOOL     | RD   | S        | 10        | 3   | 3  |    | 99        | 0  | 97        | 1  | 4      | 17 | SB        | EB | 1                   |             |
| 1705331 | 170306 | 1704 | SCOTTSDALE | RD   | SCHOOL     | RD   | E        | 45        | 1   | 1  |    | 0         | 0  | 2         | 1  | 1      | 3  | WB        | WB | 4                   |             |
| 1707885 | 170405 | 1429 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 2   | 2  |    | 0         | 0  | 6         | 1  | 1      | 1  | WB        | NB | 2                   |             |
| 1708224 | 170410 | 1154 | SCOTTSDALE | RD   | SCHOOL     | AV   | AT       |           | 3   | 3  |    | 0         | 0  | 20        | 1  | 4      | 17 | WB        | SB | 2                   |             |
| 1710073 | 170503 | 2014 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 3   | 3  |    | 99        | 0  | 6         | 1  | 1      | 1  | NB        | WB | 2                   |             |
| 1710534 | 170509 | 1752 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 4         | 1  | 2      | 3  | EB        | EB | 4                   |             |
| 1710754 | 170512 | 1602 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 99        | 0  | 2         | 1  | 1      | 1  | NB        | NB | 4                   |             |
| 1713952 | 170623 | 1140 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 99  | 99 |    | 0         | 0  | 12        | 1  | 8      | 1  | EB        | EB | 6                   |             |
| 1714476 | 170630 | 0958 | SCOTTSDALE | RD   | SCHOOL     | RD   | W        | 100       | 1   | 1  |    | 0         | 0  | 1         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1717609 | 170809 | 1456 | SCOTTSDALE | RD   | SCHOOL     | RD   | E        | 65        | 1   | 1  |    | 99        | 0  | 20        | 1  | 4      | 5  | EB        | EB | 3                   |             |
| 1726563 | 171201 | 1222 | SCOTTSDALE | RD   | SCHOOL     | RD   | S        | 51        | 1   | 1  |    | 0         | 0  | 4         | 1  | 2      | 3  | SB        | SB | 4                   |             |
| 1727266 | 171209 | 1549 | SCOTTSDALE | RD   | SCHOOL     | RD   | W        | 40        | 1   | 1  |    | 0         | 0  | 4         | 1  | 1      | 2  | WB        | WB | 4                   |             |
| 1801208 | 180116 | 1753 | SCOTTSDALE | RD   | SCHOOL     | AV   | E        | 50        | 2   | 2  |    | 0         | 0  | 97        | 1  | 10     | 1  | SB        | WB | 97                  |             |
| 1802857 | 180205 | 1555 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 99        | 0  | 99        | 1  | 5      | 5  | NB        | SB | 4                   |             |
| 1802867 | 180205 | 1600 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 40        | 1   | 1  |    | 0         | 0  | 12        | 1  | 8      | 1  | SB        | SB | 6                   |             |
| 1803781 | 180216 | 2321 | SCOTTSDALE | RD   | SCHOOL     | RD   | W        | 35        | 1   | 1  |    | 0         | 0  | 4         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1803957 | 180219 | 1710 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 3   | 3  |    | 0         | 0  | 6         | 1  | 1      | 1  | SB        | WB | 2                   |             |
| 1804735 | 180301 | 2130 | SCOTTSDALE | RD   | SCHOOL     | AV   | AT       |           | 4   | 4  |    | 99        | 0  | 99        | 1  | 10     | 20 | 99        | 99 | 1                   |             |
| 1806026 | 180317 | 0356 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 1         | 1  | 3      | 3  | NB        | NB | 4                   |             |
| 1806908 | 180327 | 1846 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 62        | 1   | 1  |    | 0         | 0  | 1         | 1  | 1      | 3  | SB        | SB | 4                   |             |
| 1807465 | 180403 | 1255 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 97        | 1  | 1      | 1  | SB        | SB | 4                   |             |
| 1809641 | 180430 | 1309 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 6         | 1  | 1      | 1  | EB        | NB | 2                   |             |
| 1811637 | 180525 | 1729 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 2         | 1  | 1      | 1  | EB        | EB | 4                   |             |
| 1812282 | 180602 | 2240 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 3   | 3  |    | 99        | 0  | 2         | 1  | 1      | 3  | NB        | NB | 4                   |             |
| 1812423 | 180604 | 1709 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 4         | 0  | 2         | 1  | 1      | 3  | SB        | SB | 4                   |             |
| 1812432 | 180604 | 2003 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 2         | 1  | 1      | 5  | WB        | WB | 4                   |             |
| 1812648 | 180607 | 1722 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 6         | 1  | 1      | 1  | WB        | SB | 2                   |             |
| 1813264 | 180615 | 1010 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 6         | 1  | 1      | 1  | EB        | SB | 2                   |             |
| 1814566 | 180701 | 1401 | SCOTTSDALE | RD   | SCHOOL     | RD   | W        | 10        | 2   | 2  |    | 0         | 0  | 1         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1819566 | 180904 | 1511 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 3   | 3  |    | 0         | 0  | 13        | 1  | 1      | 5  | WB        | NB | 2                   |             |
| 1820126 | 180911 | 2118 | SCOTTSDALE | RD   | SCHOOL     | AV   | S        | 60        | 1   | 1  |    | 0         | 0  | 1         | 1  | 1      | 2  | NB        | NB | 4                   |             |
| 1820667 | 180920 | 0808 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 6         | 1  | 1      | 1  | WB        | NB | 2                   |             |
| 1821040 | 180925 | 1210 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 6         | 1  | 1      | 1  | NB        | EB | 2                   |             |
| 1823481 | 181028 | 1558 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 2         | 1  | 1      | 3  | SB        | SB | 4                   |             |
| 1826289 | 181206 | 1307 | SCOTTSDALE | RD   | SCHOOL     | RD   | S        | 66        | 3   | 3  |    | 99        | 0  | 20        | 1  | 5      | 17 | NB        | WB | 97                  |             |
| 1826509 | 181209 | 0139 | SCOTTSDALE | RD   | SCHOOL     | RD   | W        | 69        | 2   | 2  |    | 0         | 0  | 4         | 1  | 1      | 1  | EB        | EB | 4                   |             |
| 1826699 | 181211 | 1305 | SCOTTSDALE | RD   | SCHOOL     | RD   | S        | 98        | 1   | 1  |    | 0         | 0  | 15        | 1  | 7      | 3  | NB        | NB | 6                   |             |
| 1900994 | 190114 | 0645 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 2         | 1  | 1      | 2  | EB        | EB | 4                   |             |
| 1904194 | 190222 | 2210 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 1   | 1  |    | 0         | 0  | 2         | 1  | 1      | 1  | EB        | EB | 4                   |             |
| 1904712 | 190301 | 1658 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 40        | 1   | 1  |    | 0         | 0  | 2         | 1  | 18     | 3  | SB        | SB | 4                   |             |
| 1904857 | 190303 | 1353 | SCOTTSDALE | RD   | SCHOOL     | RD   | AT       |           | 4   | 4  |    | 99        | 0  | 20        | 1  | 4      | 1  | WB        | EB | 3                   |             |
| 1905934 | 190317 | 2025 | SCOTTSDALE | RD   | SCHOOL     | AV   | AT       |           | 1   | 1  |    | 0         | 0  | 6         | 1  | 1      | 1  | NB        | EB | 2                   |             |

|         |        |      |            |    |        |    |    |     |    |    |    |    |    |    |    |    |    |    |    |
|---------|--------|------|------------|----|--------|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|
| 1906904 | 190330 | 1254 | SCOTTSDALE | RD | SCHOOL | RD | AT | 2   | 2  | 99 | 99 | 1  | 97 | 4  | 97 | SB | SB | 97 |    |
| 1908328 | 190417 | 1950 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 4  | 0  | 2  | 1  | 2  | 3  | SB | SB | 4  |    |
| 1908891 | 190424 | 1522 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 12 | 1  | 8  | 1  | SB | SB | 6  |    |
| 1909011 | 190426 | 0709 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 99 | 99 | 0  | 1  |    |    | EB |    | 4  |    |
| 1909711 | 190505 | 0703 | SCOTTSDALE | RD | SCHOOL | AV | AT | 2   | 2  | 0  | 0  | 20 | 1  | 5  | 17 | SB | NB | 5  |    |
| 1909755 | 190505 | 2222 | SCOTTSDALE | RD | SCHOOL | RD | AT | 2   | 2  | 99 | 0  | 6  | 1  | 1  | 1  | NB | WB | 2  |    |
| 1909792 | 190506 | 1227 | SCOTTSDALE | RD | SCHOOL | RD | W  | 100 | 1  | 1  | 0  | 0  | 2  | 1  | 1  | 3  | EB | EB | 4  |
| 1909907 | 190508 | 0902 | SCOTTSDALE | RD | SCHOOL | AV | AT |     | 3  | 3  | 0  | 0  | 20 | 1  | 4  | 17 | SB | EB | 3  |
| 1912767 | 190615 | 0948 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 2  | 1  | 1  | 3  | SB | SB | 4  |    |
| 1912945 | 190618 | 0532 | SCOTTSDALE | RD | SCHOOL | RD | E  | 64  | 1  | 1  | 0  | 0  | 2  | 1  | 1  | 3  | EB | EB | 4  |
| 1916018 | 190731 | 1151 | SCOTTSDALE | RD | SCHOOL | RD | AT |     | 1  | 1  | 0  | 0  | 2  | 1  | 8  | 1  | WB | WB | 6  |
| 1916408 | 190805 | 1441 | SCOTTSDALE | RD | SCHOOL | RD | AT | 4   | 4  | 4  | 0  | 6  | 1  | 17 | 1  | WB | SB | 2  |    |
| 1917996 | 190827 | 1633 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 6  | 1  | 1  | 4  | EB | WB | 2  |    |
| 1918792 | 190906 | 1615 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 4  | 0  | 2  | 1  | 2  | 3  | SB | SB | 4  |    |
| 1920231 | 190926 | 2238 | SCOTTSDALE | RD | SCHOOL | RD | N  | 100 | 1  | 1  | 0  | 0  | 1  | 1  | 4  | 1  | NB | SB | 3  |
| 1921027 | 191008 | 0908 | SCOTTSDALE | RD | SCHOOL | RD | N  |     | 47 | 1  | 1  | 0  | 0  | 1  | 1  | 1  | 3  | SB | SB |
| 1921455 | 191014 | 0320 | SCOTTSDALE | RD | SCHOOL | RD | AT | 2   | 2  | 0  | 0  | 6  | 1  | 1  | 1  | WB | NB | 2  |    |
| 1922057 | 191022 | 0723 | SCOTTSDALE | RD | SCHOOL | RD | AT | 14  | 14 | 0  | 0  | 2  | 1  | 1  | 3  | SB | SB | 4  |    |
| 1922073 | 191022 | 1307 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 97 | 1  | 4  | 1  | EB | EB | 4  |    |
| 1924241 | 191120 | 1506 | SCOTTSDALE | RD | SCHOOL | AV | N  | 30  | 1  | 1  | 0  | 0  | 2  | 1  | 1  | 3  | SB | SB | 4  |
| 1924726 | 191127 | 1400 | SCOTTSDALE | RD | SCHOOL | RD | AT |     | 1  | 1  | 0  | 0  | 99 | 99 | 1  | 1  | NB | NB | 6  |
| 1924798 | 191129 | 1117 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 20 | 1  | 4  | 1  | SB | EB | 2  |    |
| 1924944 | 191201 | 1141 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 2  | 1  | 8  | 3  | WB | WB | 4  |    |
| 1925119 | 191203 | 2003 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 2  | 1  | 5  | 1  | NB | EB | 6  |    |
| 1925186 | 191204 | 1821 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 20 | 1  | 4  | 1  | NB | WB | 2  |    |
| 1926302 | 191219 | 1154 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 7  | 1  | 5  | 4  | SB | NB | 6  |    |
| 1926951 | 191229 | 1822 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 99 | 0  | 20 | 1  | 4  | 1  | NB | SB | 3  |    |
| 1927010 | 191230 | 1636 | SCOTTSDALE | RD | SCHOOL | RD | AT | 2   | 2  | 0  | 0  | 97 | 1  | 1  | 1  | EB | EB | 4  |    |
| 1927043 | 191231 | 0923 | SCOTTSDALE | RD | SCHOOL | RD | AT | 2   | 2  | 0  | 0  | 6  | 1  | 1  | 1  | SB | WB | 2  |    |
| 1912766 | 191615 | 0919 | SCOTTSDALE | RD | SCHOOL | RD | AT | 1   | 1  | 0  | 0  | 20 | 1  | 6  | 1  | SB | EB | 3  |    |

| Report  | Date   | Time | N-S Street | Type | E-W Street    | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|---------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |               |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1700092 | 170102 | 0913 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 6      | 1  | WB        | EB | 3                   |             |
| 1704068 | 170218 | 0853 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 4         | 0  | 2         | 1  | 1      | 1  | WB        | WB | 4                   | DUI         |
| 1706710 | 170322 | 1354 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 12        | 1  | 8      | 1  | EB        | EB | 6                   |             |
| 1708432 | 170412 | 1725 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 6      | 1  | WB        | EB | 3                   |             |
| 1708702 | 170416 | 1017 | DRINKWATER | BL   | INDIAN SCHOOL | AV   | N        | 25        | 99  | 99 | 99 | 0         | 97 | 1         | 10 | 14     | SB | NB        | 4  | HIT AND RUN         |             |
| 1708703 | 170416 | 1042 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 20        | 1  | 4      | 1  | SB        | EB | 3                   |             |
| 1715821 | 170716 | 1638 | DRINKWATER | BL   | INDIAN SCHOOL | AV   | AT       |           | 1   | 1  | 1  | 0         | 99 | 99        | 99 | 99     | 99 | WB        | EB | 99                  |             |
| 1716992 | 170801 | 1724 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | E        | 50        | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 1  | WB        | WB | 4                   | MULTI VEH 3 |
| 1723896 | 171028 | 1224 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | S        | 57        | 1   | 1  | 1  | 0         | 0  | 12        | 1  | 8      | 3  | NB        | NB | 6                   |             |
| 1723980 | 171029 | 1333 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | WB        | WB | 4                   |             |
| 1724709 | 171106 | 1553 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 2   | 1  | 2  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1726765 | 171203 | 1901 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 4   | 4  | 2  | 4         | 0  | 2         | 1  | 1      | 3  | SB        | WB | 2                   | DUI         |
| 1800110 | 180102 | 1250 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | W        | 15        | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 1  | EB        | EB | 4                   |             |
| 1802311 | 180131 | 1026 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | N        | 10        | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | SB        | SB | 4                   |             |
| 1804151 | 180222 | 1528 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | N        | 100       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 5  | NB        | EB | 4                   |             |
| 1804690 | 180301 | 1621 | DRINKWATER | BL   | INDIAN SCHOOL | AV   | N        | 100       | 1   | 1  | 1  | 0         | 0  | 99        | 99 | 1      | 13 | SB        | NB | 99                  |             |
| 1807797 | 180407 | 1102 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 2   | 2  | 1  | 0         | 0  | 6         | 1  | 1      | 4  | SB        | NB | 5                   |             |
| 1816389 | 180726 | 0830 | DRINKWATER | BL   | INDIAN SCHOOL | AV   | AT       |           | 99  | 99 | 1  | 99        | 0  | 2         | 1  | 8      | 3  | NB        | NB | 4                   | HIT AND RUN |
| 1825693 | 181128 | 1707 | DRINKWATER | BL   | INDIAN SCHOOL | AV   | AT       |           | 3   | 3  | 1  | 0         | 0  | 97        | 7  | 17     | 4  | EB        | SB | 2                   | CAR/BICYCLE |
| 1826963 | 181214 | 1615 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 3   | 3  | 1  | 0         | 0  | 2         | 1  | 1      | 1  | WB        | SB | 2                   |             |
| 1903259 | 190211 | 0114 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | W        | 100       | 1   | 1  | 0  | 0         | 99 | 1         | 1  | EB     |    |           |    | 1                   |             |
| 1903586 | 190215 | 1605 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1911233 | 190525 | 1735 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1913801 | 190629 | 0131 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | NB        | NB | 4                   | MULTI VEH 3 |
| 1914589 | 190710 | 1706 | DRINKWATER | BL   | INDIAN SCHOOL | AV   | E        | 25        | 1   | 1  | 0  | 0         | 2  | 1         | 1  | 1      | 14 | WB        | WB | 4                   |             |
| 1919277 | 190913 | 2117 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | W        | 43        | 1   | 1  | 1  | 0         | 0  | 4         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1920339 | 190928 | 0231 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 97        | 1  | 4      | 1  | WB        | EB | 5                   |             |
| 1922327 | 191025 | 2335 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1922866 | 191101 | 1848 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | AT       |           | 1   | 1  | 1  | 99        | 99 | 99        | 99 | 1      | 1  | WB        | NB | 2                   |             |

| Report  | Date   | Time | N-S Street | Type | E-W Street    | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|---------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |               |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1705290 | 170306 | 1113 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 101       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1706323 | 170317 | 1722 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 300       | 2   | 2  |    | 4         |    | 2         |    | 1      |    | WB        |    | 1                   | DUI         |
| 1715357 | 170711 | 0911 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 125       | 99  | 99 | 99 | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   | MULTI VEH 3 |
| 1727166 | 171208 | 1302 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 112       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | WB        | WB | 4                   |             |
| 1805408 | 180309 | 1915 | MARSHALL   | WY   | INDIAN SCHOOL | RD   | E        | 150       | 1   | 1  | 1  | 0         | 0  | 7         | 1  | 4      | 1  | SB        | WB | 2                   |             |
| 1808037 | 180410 | 1731 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | E        | 200       | 3   | 1  | 3  | 0         | 0  | 4         | 1  | 1      | 3  | WB        | WB | 4                   |             |
| 1819643 | 180905 | 1731 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 416       | 1   | 1  | 1  | 0         | 0  | 12        | 1  | 8      | 1  | WB        | WB | 6                   |             |
| 1827382 | 181219 | 1855 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | E        | 500       | 99  | 99 | 1  | 99        | 0  | 7         | 1  | 5      | 1  | EB        | EB | 6                   | HIT AND RUN |
| 1915932 | 190730 | 0754 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 293       | 1   | 1  |    | 0         | 0  | 4         | 1  | 1      | 1  | EB        | EB | 4                   |             |
| 1918528 | 190903 | 0950 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 129       | 1   | 1  | 99 | 0         | 12 | 1         | 8  | 1      | EB | EB        | 4  |                     |             |
| 1921029 | 191008 | 0928 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | W        | 200       | 1   | 1  |    | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |

| Report  | Date   | Time | N-S Street | Type | E-W Street    | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments    |
|---------|--------|------|------------|------|---------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|-------------|
|         |        |      |            |      |               |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |             |
| 1704542 | 170224 | 1720 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | E        | 224       | 2   | 2  | 1  | 0         | 0  | 97        | 1  | 2      | 3  | WB        | WB | 4                   | MULTI VEH 3 |
| 1718521 | 170821 | 1329 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | W        | 101       | 2   | 1  | 2  | 0         | 0  | 12        | 1  | 8      | 1  | WB        | WB | 6                   |             |
| 1723137 | 171019 | 1440 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | E        | 176       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 1      | 3  | EB        | EB | 4                   |             |
| 1807564 | 180404 | 1653 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | E        | 150       | 1   | 1  | 1  | 0         | 0  | 12        | 1  | 8      | 1  | EB        | EB | 6                   |             |
| 1825777 | 181129 | 1551 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | E        | 150       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 2      | 3  | WB        | WB | 4                   |             |
| 1901615 | 190122 | 1201 | BUCKBOARD  | TR   | INDIAN SCHOOL | RD   | E        | 500       | 3   | 3  | 0  | 0         | 0  | 20        | 1  | 5      | 17 | SB        | EB | 2                   |             |
| 1906708 | 190328 | 1122 | DRINKWATER | BL   | INDIAN SCHOOL | RD   | W        | 108       | 1   | 1  | 0  | 0         | 0  | 2         | 1  | 1      | 1  | WB        | WB | 4                   |             |
| 1908814 | 190423 | 1540 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | E        | 113       | 3   | 3  | 0  | 0         | 0  | 2         | 1  | 4      | 3  | EB        | EB | 4                   |             |
| 1918635 | 190904 | 1626 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | E        | 120       | 1   | 1  | 99 | 0         | 0  | 12        | 1  | 8      | 1  | EB        | EB | 6                   |             |
| 1921285 | 191011 | 1722 | BROWN      | AV   | INDIAN SCHOOL | RD   | W        | 111       | 1   | 1  | 0  | 0         | 0  | 12        | 1  | 8      | 1  | EB        | EB | 6                   |             |
| 1922317 | 191025 | 2054 | BROWN      | AV   | INDIAN SCHOOL | RD   | E        | 66        | 3   | 3  | 0  | 0         | 0  | 97        | 1  | 1      | 1  | EB        | EB | 6                   |             |
| 1923314 | 191107 | 1640 | SCOTTSDALE | RD   | INDIAN SCHOOL | RD   | E        | 120       | 1   | 1  | 0  | 0         | 0  | 12        | 1  | 8      | 1  | WB        | WB | 6                   |             |

| Report  | Date   | Time | N-S Street | Type | E-W Street    | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments |
|---------|--------|------|------------|------|---------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|----------|
|         |        |      |            |      |               |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |          |
| 1823830 | 181102 | 0222 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | N        | 187       | 3   | 3  | 4  | 2         | 1  | NB        |    | 1      |    | DUI       |    |                     |          |
| 1900522 | 190108 | 1806 | GOLDWATER  | BL   | INDIAN SCHOOL | RD   | N        | 140       | 99  | 99 | 0  | 0         | 1  | 1         | 2  | 3      | SB | SB        | 4  |                     |          |

| Report  | Date   | Time | N-S Street | Type | E-W Street | Type | Dir From | Dist From | Inj |    |    | Phys Cond |    | Violation |    | Action |    | Direction |    | Manner of Collision | Comments |
|---------|--------|------|------------|------|------------|------|----------|-----------|-----|----|----|-----------|----|-----------|----|--------|----|-----------|----|---------------------|----------|
|         |        |      |            |      |            |      |          |           | Max | #1 | #2 | #1        | #2 | #1        | #2 | #1     | #2 | #1        | #2 |                     |          |
| 1800635 | 180109 | 1810 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 110       | 1   | 1  | 1  | 0         | 0  | 2         | 1  | 2      | 3  | SB        | SB | 4                   |          |
| 1902301 | 190130 | 2245 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 185       | 1   | 1  | 0  | 0         | 97 | 0         | 4  |        |    | WB        |    | 1                   |          |
| 1904098 | 190221 | 1925 | SCOTTSDALE | RD   | 3          | AV   | S        | 235       | 1   | 1  | 0  | 0         | 12 | 1         | 8  | 1      | SB | SB        | 6  |                     |          |
| 1904262 | 190223 | 2100 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 194       | 2   | 2  | 4  | 0         | 97 | 1         | 1  | 3      | SB | SB        | 4  |                     |          |
| 1908560 | 190420 | 1425 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 200       | 1   | 1  | 0  | 0         | 2  | 1         | 1  | 3      | NB | NB        | 4  |                     |          |
| 1910126 | 190510 | 2016 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 200       | 1   | 1  | 99 | 0         | 99 | 20        | 1  | 8      | SB | SB        | 6  |                     |          |
| 1912219 | 190607 | 1912 | SCOTTSDALE | RD   | SCHOOL     | RD   | N        | 450       | 1   | 1  | 99 | 0         | 2  | 1         | 1  | 3      | SB | SB        | 4  |                     |          |
| 1916356 | 190804 | 2126 | SCOTTSDALE | RD   | 3          | AV   | S        | 309       | 3   | 3  | 0  | 0         | 12 | 1         | 8  | 1      | SB | SB        | 6  |                     |          |



## Appendix C – Parcel Information

C

## 173-50-117B Commercial Parcel

This is a commercial parcel located at [7110 E INDIAN SCHOOL RD SCOTTSDALE 85251](#), and the current owner is SCOTTSDALE INN LLC. Its current year full cash value is \$4,529,200.

---

### Property Information

#### [7110 E INDIAN SCHOOL RD SCOTTSDALE 85251](#)

MCR #

PT W2 E2 SE4 SE4 DAF BEG SW COR E2 SE4 SE4 TH N ALG W LN E2 SE4 SE4 363F  
M/L TO NLY SW COR TR A CRAFTSMAN COURT MCR 62/23 TH E ALG A S LN OF  
TR A 163.86F M/L TO COR TR A TH S ALG A W LN OF TR A 98.40F TO SLY SW

Description: COR TR A TH S 80D 58M W 1.67F TH S 114.31F TH E 1.18F TH S 150.02F TO PT ON S  
LN SEC WH IS 491.59F W OF SE COR SEC TH W ALG SD S LN 163.87F TO POB EX S  
40F RD & EX RD P/F 05-1042629 DAF COM SW COR SD E2 SE4 SE4 TH N 40.01F  
POB TH CONT N 2.18F TH N 87D 27M E 164.02F TH S 6.97F TH W 163.87F TPOB

Lat/Long [33.49501956 | -111.92819384](#)

Lot Size 52,009 sq ft.

Zoning C-2

Lot #

High School District SCOTTSDALE UNIFIED #48

Elementary School District SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction SCOTTSDALE

S/T/R 22 2N 4E

Market Area/Neighborhood 19/006

Subdivision (0  
Parcels)

---

## Owner Information

### SCOTTSDALE INN LLC

Mailing Address PO BOX 4372, SCOTTSDALE, AZ 85261

Deed Number [110749644](#)

Last Deed Date 09/09/2011

Sale Date n/a

Sale Price n/a

---

## Valuation Information

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our [data sales](#).

**The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program. [CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL](#)**

| Tax Year               | 2021                   | 2020                   | 2019                   | 2018                   | 2017                   |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Full Cash Value        | \$4,529,200            | \$4,332,200            | \$4,180,100            | \$4,005,500            | \$3,823,900            |
| Limited Property Value | \$2,392,071            | \$2,278,163            | \$2,169,679            | \$2,066,361            | \$1,967,963            |
| Legal Class            | 1.12                   | 1.12                   | 1.12                   | 1.12                   | 1.12                   |
| Description            | COMMERCIAL / OTHER R/P |
| Assessment Ratio       | 18%                    | 18%                    | 18%                    | 18%                    | 18%                    |
| Assessed LPV           | \$430,573              | \$410,069              | \$390,542              | \$371,945              | \$354,233              |
| Property Use Code      | 0510                   | 0510                   | 0510                   | 0510                   | 0510                   |
| PU Description         | Motel                  | Motel                  | Motel                  | Motel                  | Motel                  |
| Tax Area Code          | 481400                 | 481400                 | 481400                 | 481400                 | 481400                 |
| Valuation Source       | Notice                 | Notice                 | Notice                 | Notice                 | Notice                 |

---

## Additional Property Information

Additional commercial property data.

| Description       | Imp #      | Occupancy Rank | CCI | Age | Sq Ft. |
|-------------------|------------|----------------|-----|-----|--------|
| Motel             | 000101 343 | 2              | C   | 37  | 7,970  |
| Motel             | 000201 343 | 2              | C   | 37  | 11,730 |
| Motel             | 000301 343 | 2              | C   | 37  | 3,270  |
| Site Improvements | 000401 163 | 2              | D   | 37  | 1      |

## 173-50-034 Commercial Parcel

This is a commercial parcel located at [7117 E 3RD AVE SCOTTSDALE 85251](#), and the current owner is VALLEY OF THE SUN ENTERTAINMENT LLC. It is located in the Craftsmans Court subdivision and MCR 6223. Its current year full cash value is \$6,856,000.

---

## Property Information

### [7117 E 3RD AVE SCOTTSDALE 85251](#)

|                            |  |
|----------------------------|--|
| MCR #                      | <a href="#">6223</a>                       |
| Description:               | CRAFTSMANS COURT                           |
| Lat/Long                   | <a href="#">33.49628517  -111.92772728</a> |
| Lot Size                   | 47,889 sq ft.                              |
| Zoning                     | C-2  |
| Lot #                      |  |
| High School District       | SCOTTSDALE UNIFIED #48                     |
| Elementary School District | SCOTTSDALE UNIFIED SCHOOL DISTRICT         |
| Local Jurisdiction         | SCOTTSDALE                                 |
| S/T/R                      | 22 2N 4E                                   |
| Market Area/Neighborhood   | 19/006                                     |
| Subdivision (31 Parcels)   | <a href="#">CRAFTSMANS COURT</a>           |

---

## Owner Information

### [VALLEY OF THE SUN ENTERTAINMENT LLC](#)

|                 |                                    |
|-----------------|------------------------------------|
| Mailing Address | 1345 S LEWIS ST, ANAHEIM, CA 92805 |
| Deed Number     | <a href="#">031007072</a>          |
| Last Deed Date  | 07/29/2003                         |
| Sale Date       | n/a                                |
| Sale Price      | n/a                                |

---

## Valuation Information

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our [data sales](#).

**The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program.** [\*\*CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL\*\*](#)

| Tax Year               | 2021                   | 2020                   | 2019                   | 2018                   | 2017                   |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Full Cash Value        | \$6,856,000            | \$6,643,200            | \$6,445,100            | \$6,228,100            | \$5,584,700            |
| Limited Property Value | \$5,291,954            | \$5,039,956            | \$4,799,958            | \$4,571,389            | \$4,353,704            |
| Legal Class            | 1.12                   | 1.12                   | 1.12                   | 1.12                   | 1.12                   |
| Description            | COMMERCIAL / OTHER R/P |
| Assessment Ratio       | 18%                    | 18%                    | 18%                    | 18%                    | 18%                    |
| Assessed LPV           | \$952,552              | \$907,192              | \$863,992              | \$822,850              | \$783,667              |
| Property Use Code      | 1132                   | 1132                   | 1132                   | 1132                   | 1132                   |
| PU Description         | Retail                 | Retail                 | Retail                 | Retail                 | Retail                 |
| Tax Area Code          | 481400                 | 481400                 | 481400                 | 481400                 | 481400                 |
| Valuation Source       | Notice                 | Notice                 | Notice                 | Notice                 | Notice                 |

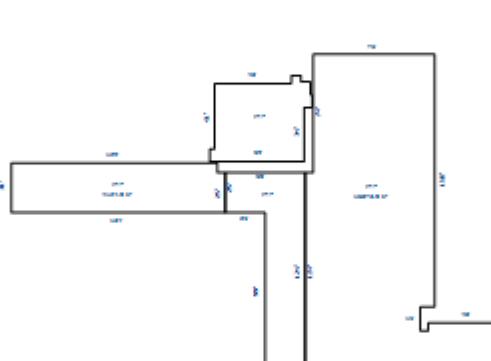
## Additional Property Information

Additional commercial property data.

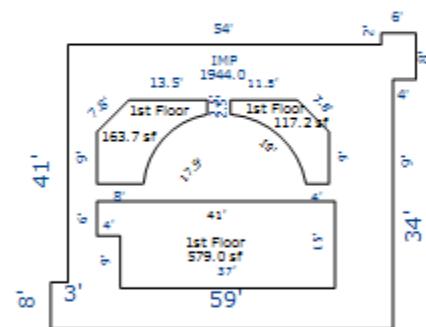
| Description               | Imp #      | Occupancy | Rank | CCI | Age    | Sq Ft. |
|---------------------------|------------|-----------|------|-----|--------|--------|
| Cocktail Lounge           | 000101 441 | 3         | C    | 20  | 16,873 |        |
| Cocktail Lounge           | 000102 441 | 3         | C    | 20  | 7,450  |        |
| Neighborhood Shopping Ctr | 000103 412 | 2         | C    | 20  | 4,124  |        |
| Cocktail Lounge           | 000104 441 | 3         | C    | 5   | 4,816  |        |
| Site Improvements         | 000201 163 | 2         | D    | 20  | 1      |        |

# Building Sketches

Sketches that illustrate the external dimensions of a property.



2ND FLOOR



## 173-50-108A Commercial Parcel

This is a commercial parcel located at [7120 E INDIAN SCHOOL RD SCOTTSDALE 85251](#). and the current owner is KIMSEY PROPERTIES LLLP. Its current year full cash value is \$3,033,000.

---

### Property Information

#### [7120 E INDIAN SCHOOL RD SCOTTSDALE 85251](#)

MCR #

PT W2 E2 SE4 SE4 DAF COM SE COR SEC TH W 491.71F TO SE COR W2 W2 E2 SE4  
SE4 & POB TH N ALG E LN W2 W2 E2 SE4 SE4 150.02F TH W 1.18F TH N 114.31F TH

Description: N 80D 58M E 1.67F TO SLY SW COR TR A OF CRAFTSMAN CO URT MCR 62/23 TH  
E ALG S LN TR A 163.85F TO E LN W2 E2 SE4 SE4 TH S ALG SD E LN 264.60F TO S  
LN SEC TH W ALG SD S LN TO POB EX S 40F RD & EX RD P/F 98-627812

Lat/Long [33.49505058 | -111.92744284](#)

Lot Size 36,112 sq ft.

Zoning C-2

Lot #

High School District SCOTTSDALE UNIFIED #48

Elementary School District SCOTTSDALE UNIFIED SCHOOL DISTRICT

Local Jurisdiction SCOTTSDALE

S/T/R 22 2N 4E

Market Area/Neighborhood 19/006

Subdivision (0  
Parcels)

---

## Owner Information

### KIMSEY PROPERTIES LLLP

Mailing Address P O BOX 7682, CAVE CREEK, AZ 85327

In Care Of THOMAS M KIMSEY

Deed Number [180852669](#)

Last Deed Date 11/16/2018

Sale Date n/a

Sale Price n/a

## Valuation Information

We provide valuation information for the past 5 years. For mobile display, we only show 1 year of valuation information. Should you need more data, please look at our [data sales](#).

**The Valuation Information displayed below may not reflect the taxable value used on the tax bill due to any special valuation relief program.** [\*\*CLICK HERE TO PAY YOUR TAXES OR VIEW YOUR TAX BILL\*\*](#)

| Tax Year               | 2021                   | 2020                   | 2019                   | 2018                   | 2017                   |
|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Full Cash Value        | \$3,033,000            | \$2,844,600            | \$2,730,100            | \$2,600,000            | \$2,622,200            |
| Limited Property Value | \$1,694,066            | \$1,613,396            | \$1,536,568            | \$1,463,398            | \$1,393,712            |
| Legal Class            | 1.12                   | 1.12                   | 1.12                   | 1.12                   | 1.12                   |
| Description            | COMMERCIAL / OTHER R/P |
| Assessment Ratio       | 18%                    | 18%                    | 18%                    | 18%                    | 18%                    |
| Assessed LPV           | \$304,932              | \$290,411              | \$276,582              | \$263,412              | \$250,868              |
| Property Use Code      | 1122                   | 1122                   | 1122                   | 1122                   | 1122                   |
| PU Description         | Retail                 | Retail                 | Retail                 | Retail                 | Retail                 |
| Tax Area Code          | 481400                 | 481400                 | 481400                 | 481400                 | 481400                 |
| Valuation Source       | Notice                 | Notice                 | Notice                 | Notice                 | Notice                 |

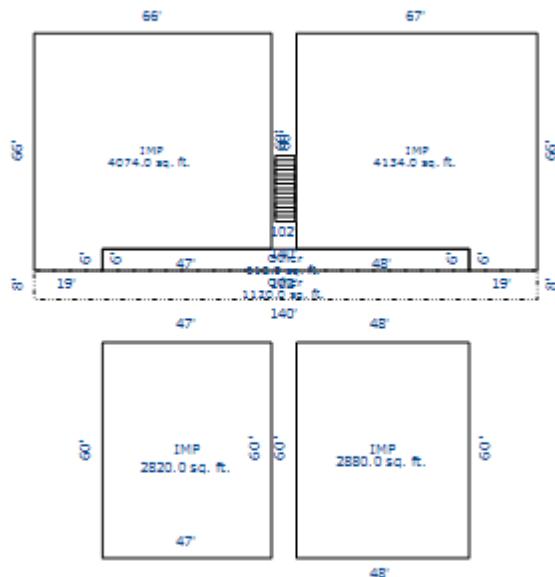
## Additional Property Information

Additional commercial property data.

| Description       | Imp #      | Occupancy Rank | CCI | Age | Sq Ft. |
|-------------------|------------|----------------|-----|-----|--------|
| Retail Store      | 000101 353 | 2              | C   | 35  | 6,894  |
| Retail Store      | 000201 353 | 2              | C   | 35  | 7,014  |
| Site Improvements | 000301 163 | 2              | D   | 35  | 1      |

## Building Sketches

Sketches that illustrate the external dimensions of a property.





## Appendix D – Traffic Count Data

D



# Southbridge Expansion

Traffic Impact Study

North of 5th Avenue and  
West of Scottsdale Road  
in Scottsdale, Arizona

May 2019  
Project No. 18-1110

Prepared For:  
**Spring Creek Development**  
7134 East Stetson Drive, Fourth Floor  
Scottsdale, AZ 85251

For Submittal to:  
**City of Scottsdale**

Prepared By:



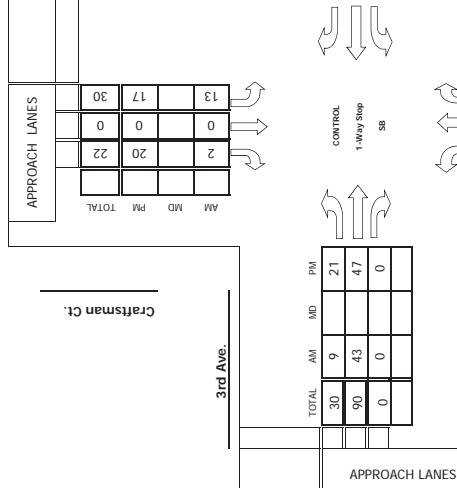
10605 North Hayden Road  
Suite 140  
Scottsdale, Arizona 85260  
480-659-4250

Intersection Turning Movement  
Prepared by:

**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6745

Project #: 18-1362-016

TMC SUMMARY OF Craftsman Ct. & 3rd Ave.



| APPROACH LANES |    |     |    |
|----------------|----|-----|----|
| TOTAL          | AM | MID | PM |
| 0              | 0  | 0   | 0  |
| 0              | 0  | 0   | 0  |
| 0              | 0  | 0   | 0  |

LOCATION #: 18-1362-016  
TURNING MOVEMENT COUNT  
Craftsman Ct. & 3rd Ave.  
(Intersection Name)

| COUNT PERIODS |               |
|---------------|---------------|
| THURSDAY      | 08/02/18      |
| Day           | Date          |
| AM            | 700AM - 900AM |
| NOON          | -             |
| PM            | 400PM - 600PM |

| AM PEAK HOUR   | 800 AM |
|----------------|--------|
| NOON PEAK HOUR |        |
| PM PEAK HOUR   | 430 PM |

**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6745

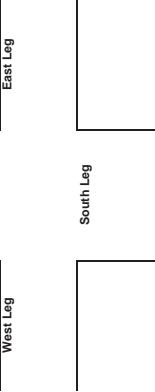
Pedestrian & Bicycle Study

Date: 08/02/18  
Day: THURSDAY

City: Scottsdale  
Project #: 18-1362-01

| PEDESTRIANS  |          |          |          |
|--------------|----------|----------|----------|
| N-LEG        | S-LEG    | E-LEG    | W-LEG    |
| 7:00 AM      | 0        | 0        | 0        |
| 7:15 AM      | 1        | 0        | 0        |
| 7:30 AM      | 0        | 0        | 0        |
| 7:45 AM      | 0        | 0        | 0        |
| 8:00 AM      | 0        | 1        | 0        |
| 8:15 AM      | 0        | 0        | 0        |
| 8:30 AM      | 0        | 0        | 0        |
| 8:45 AM      | 0        | 0        | 0        |
| <b>TOTAL</b> | <b>1</b> | <b>0</b> | <b>0</b> |

| BICYCLES     |          |          |          |
|--------------|----------|----------|----------|
| N-LEG        | S-LEG    | E-LEG    | W-LEG    |
| 7:00 AM      | 0        | 0        | 0        |
| 7:15 AM      | 0        | 0        | 0        |
| 7:30 AM      | 0        | 0        | 0        |
| 7:45 AM      | 0        | 0        | 0        |
| 8:00 AM      | 0        | 0        | 0        |
| 8:15 AM      | 0        | 0        | 0        |
| 8:30 AM      | 0        | 0        | 0        |
| <b>TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> |

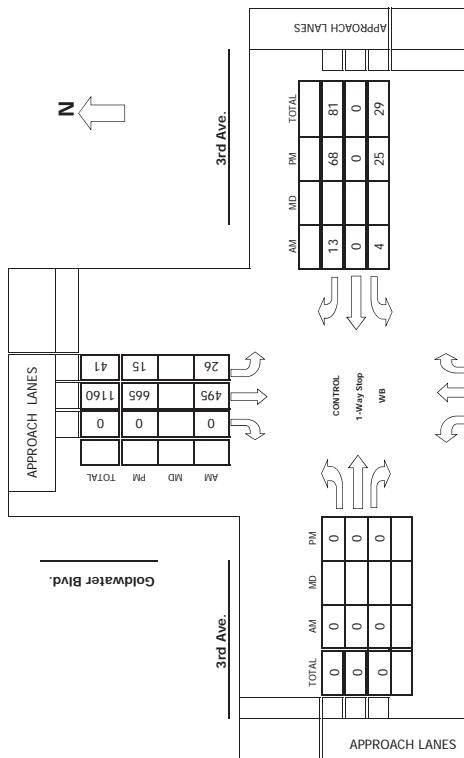


Intersection Turning Movement  
Prepared by:

**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6745

Project #: 18-1362-017

TMC SUMMARY OF Goldwater Blvd. & 3rd Ave.



| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 1029           | 474 | 19 | 12 |
| 0              | 0   | 0  | 0  |
| 31             | 19  | 15 | 12 |
| 0              | 0   | 0  | 0  |
| 1029           | 474 | 19 | 12 |
| 0              | 0   | 0  | 0  |

LOCATION #: 18-1362-017  
TURNING MOVEMENT COUNT  
Goldwater Blvd. & 3rd Ave.  
(Intersection Name)

| COUNT PERIODS |               |      |           |
|---------------|---------------|------|-----------|
| Day           | 08/01/18      | Date | WEDNESDAY |
| AM            | 700AM - 900AM |      |           |
| NOON          | -             |      |           |
| PM            | 400PM - 600PM |      |           |

| APPROACH LANES |    |    |    |
|----------------|----|----|----|
| TOTAL          | AM | MD | PM |
| 730 AM         |    |    |    |
| NOON           |    |    |    |
| 4:15 PM        |    |    |    |

**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6745 **Veracity traffic group**

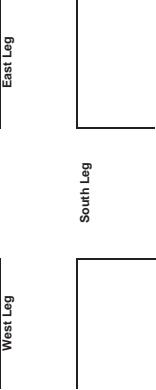
Pedestrian & Bicycle Study

Date: 08/01/18  
Day: WEDNESDAY

City: Scottsdale  
Project #: 18-1362-01

| PEDESTRIANS  |          |          |          |
|--------------|----------|----------|----------|
| N-LEG        | S-LEG    | E-LEG    | W-LEG    |
| 7:00 AM      | 0        | 0        | 0        |
| 7:15 AM      | 0        | 0        | 0        |
| 7:30 AM      | 0        | 0        | 0        |
| 7:45 AM      | 0        | 0        | 0        |
| 8:00 AM      | 0        | 0        | 0        |
| 8:15 AM      | 0        | 0        | 0        |
| 8:30 AM      | 0        | 0        | 0        |
| 8:45 AM      | 0        | 0        | 0        |
| <b>TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> |

| BICYCLES     |          |          |          |
|--------------|----------|----------|----------|
| N-LEG        | S-LEG    | E-LEG    | W-LEG    |
| 7:00 AM      | 0        | 0        | 0        |
| 7:15 AM      | 0        | 0        | 0        |
| 7:30 AM      | 0        | 0        | 0        |
| 7:45 AM      | 0        | 0        | 0        |
| 8:00 AM      | 0        | 0        | 0        |
| 8:15 AM      | 0        | 0        | 0        |
| 8:30 AM      | 0        | 0        | 0        |
| <b>TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> |



North Leg

East Leg

South Leg

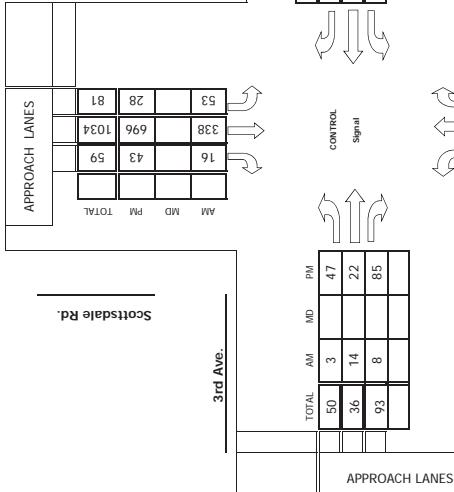
West Leg

Intersection Turning Movement  
Prepared by:

**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6748

Project #: 18-1362-018

TMC SUMMARY OF Scottsdale Rd. & 3rd Ave.



| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES |     |    |    |
|----------------|-----|----|----|
| TOTAL          | AM  | MD | PM |
| 101            | 51  | 52 | 50 |
| 916            | 395 | 23 | 23 |
| 46             | 23  | 23 | 23 |
| 101            | 51  | 52 | 50 |

| APPROACH LANES | | | |
| --- | --- | --- | --- |
<





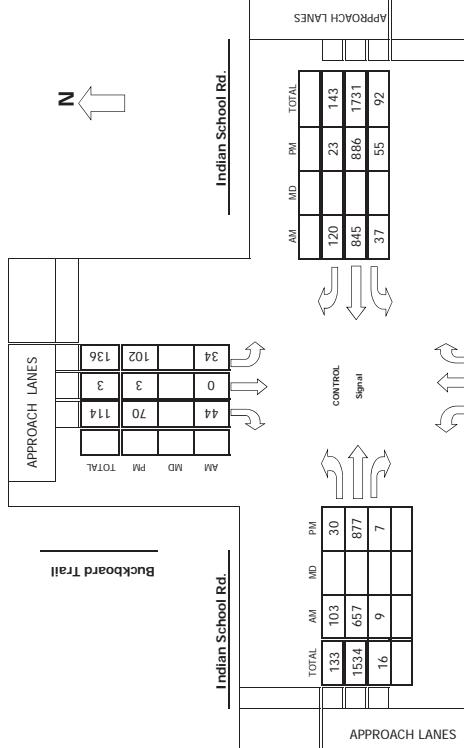


Intersection Turning Movement  
Prepared by:

**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6745

Project #: 18-1362-025

TMC SUMMARY OF Buckboard Trail & Indian School Rd.



| APPROACH LANES |     |     |    |
|----------------|-----|-----|----|
| TOTAL          | AM  | MID | PM |
| 1534           | 657 | 877 |    |
| 11             | 16  | 9   | 7  |
| 5              |     |     |    |
| 1              |     |     |    |
| 2              |     |     |    |
| 4              |     |     |    |
| 9              |     |     |    |
| 14             |     |     |    |
| 41             |     |     |    |
| 120            | 103 | 30  |    |
| TOTAL          | 133 | 103 | 30 |

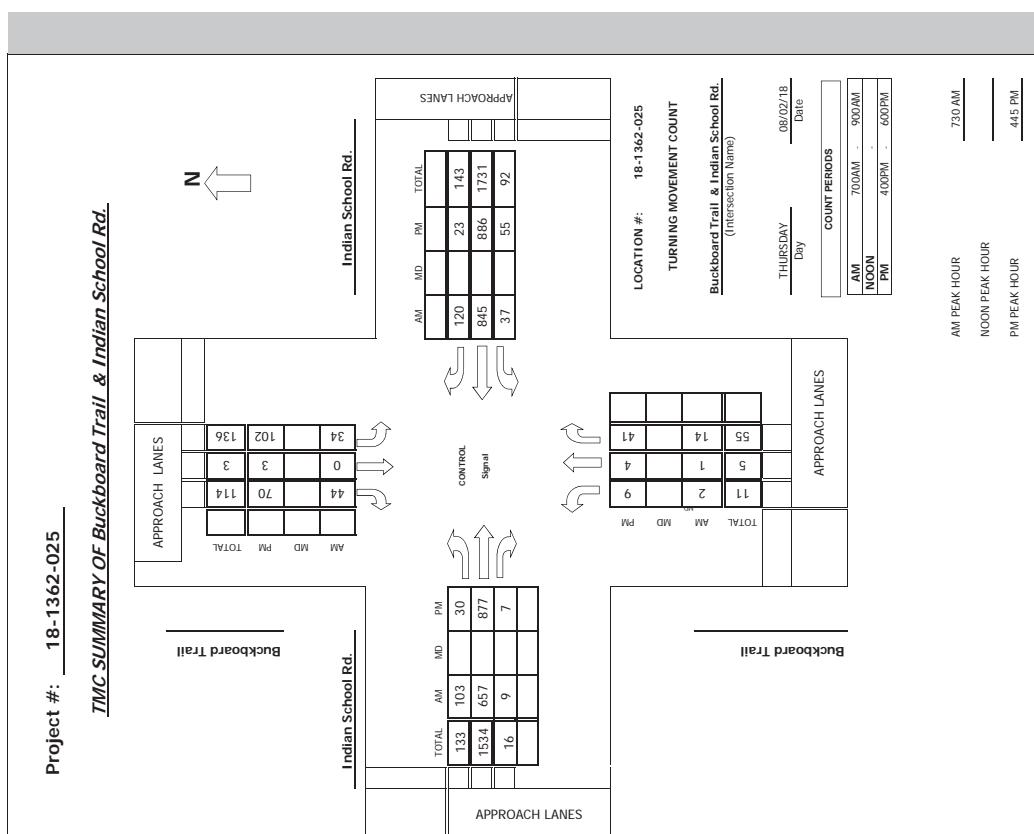
| APPROACH LANES |     |     |    |
|----------------|-----|-----|----|
| TOTAL          | AM  | MID | PM |
| 1534           | 657 | 877 |    |
| 11             | 16  | 9   | 7  |
| 5              |     |     |    |
| 1              |     |     |    |
| 2              |     |     |    |
| 4              |     |     |    |
| 9              |     |     |    |
| 14             |     |     |    |
| 41             |     |     |    |
| 120            | 103 | 30  |    |
| TOTAL          | 133 | 103 | 30 |

Buckboard Trail

LOCATION #: 18-1362-025  
TURNING MOVEMENT COUNT  
Buckboard Trail & Indian School Rd.  
(Intersection Name)

THURSDAY  
Day  
08/02/18  
Date  
COUNT PERIODS  
AM 700AM - 900AM  
NOON 400PM - 600PM  
PM 445 PM

AM PEAK HOUR  
730 AM  
NOON PEAK HOUR  
PM PEAK HOUR  
445 PM



**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6745

Veracity traffic group

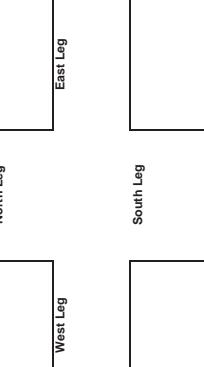
Pedestrian & Bicycle Study

City: Scottsdale  
Project #: 18-1362-02

Date: 08/02/18  
Day: THURSDAY

| PEDESTRIANS  |          |          |          |
|--------------|----------|----------|----------|
| N-LEG        | S-LEG    | E-LEG    | W-LEG    |
| 7:00 AM      | 1        | 0        | 0        |
| 7:15 AM      | 0        | 0        | 0        |
| 7:30 AM      | 2        | 0        | 0        |
| 7:45 AM      | 1        | 0        | 0        |
| 8:00 AM      | 0        | 1        | 0        |
| 8:15 AM      | 1        | 1        | 0        |
| 8:30 AM      | 1        | 2        | 0        |
| 8:45 AM      | 2        | 0        | 0        |
| <b>TOTAL</b> | <b>8</b> | <b>0</b> | <b>0</b> |
| <b>TOTAL</b> | <b>1</b> | <b>0</b> | <b>0</b> |

| BICYCLES     |          |          |          |
|--------------|----------|----------|----------|
| N-LEG        | S-LEG    | E-LEG    | W-LEG    |
| 7:00 AM      | 0        | 0        | 0        |
| 7:15 AM      | 0        | 0        | 0        |
| 7:30 AM      | 1        | 0        | 0        |
| 7:45 AM      | 0        | 0        | 0        |
| 8:00 AM      | 0        | 0        | 0        |
| 8:15 AM      | 0        | 0        | 0        |
| 8:30 AM      | 0        | 0        | 0        |
| <b>TOTAL</b> | <b>1</b> | <b>0</b> | <b>0</b> |
| <b>TOTAL</b> | <b>1</b> | <b>0</b> | <b>0</b> |

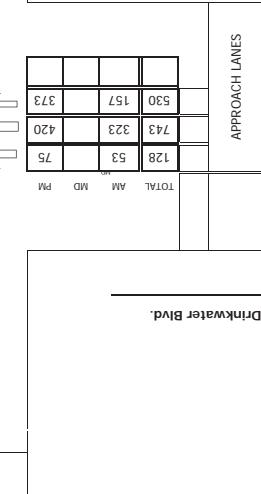
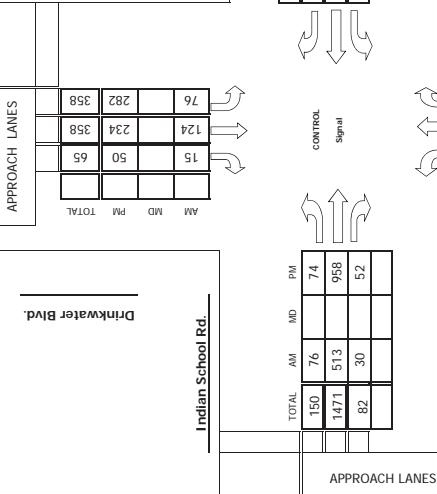


Intersection Turning Movement  
Prepared by:

**FIELD DATA SERVICES OF ARIZONA, Inc.**  
520.316.6748

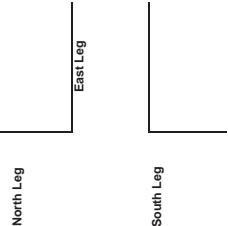
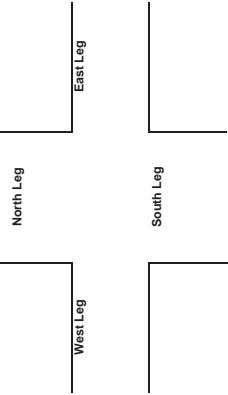
Project #: 18-1362-026

TMC SUMMARY OF Drinkwater Blvd. & Indian School Rd.



AM PEAK HOUR  
NOON PEAK HOUR  
PM PEAK HOUR

7:30 AM  
4:45 PM



| APPROACH LANES |     |    |     |
|----------------|-----|----|-----|
| TOTAL          | AM  | MD | PM  |
| 150            | 176 | 74 | 958 |
| 1471           | 513 | 52 | 274 |
| 82             | 30  |    | 254 |
|                |     |    | 528 |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
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| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
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| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
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|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
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| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
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|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
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|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
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| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
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| 128            | 53  | 75  | 254  |
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| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
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| 743            | 323 | 420 | 759  |
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| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
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| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
| 82             | 30  |     | 274  |
|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
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|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
| 530            | 157 | 373 | 420  |
| 128            | 53  | 75  | 254  |
| 1471           | 513 | 52  | 975  |
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| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
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|                |     |     | 528  |

| APPROACH LANES |     |     |      |
|----------------|-----|-----|------|
| TOTAL          | AM  | MD  | PM   |
| 128            | 53  | 75  | 1734 |
| 743            | 323 | 420 | 759  |
|                |     |     |      |



## Appendix E – Signal Timing

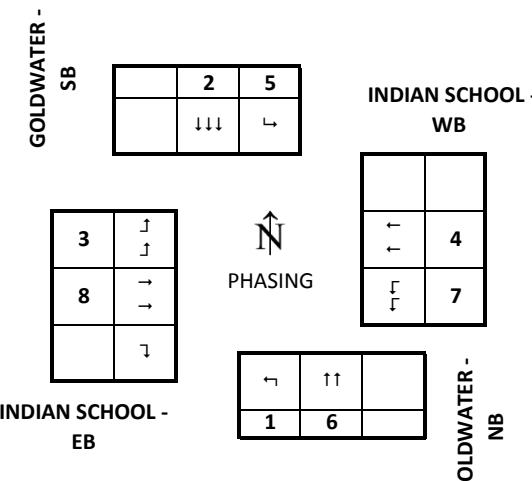
E

|                           |  |  |  |           |                         |  |               |             |
|---------------------------|--|--|--|-----------|-------------------------|--|---------------|-------------|
| INDIAN SCHOOL & GOLDWATER |  |  |  |           |                         |  |               | System # 44 |
| BASIC TIMING PLAN         |  |  |  | Section # | I.P. Address<br>MM1-5-1 |  | Date Designed |             |
|                           |  |  |  |           | 172.27.10.44            |  | 12/12/2016    |             |

| Phase            | 1    | 2   | 3    | 4   | 5    | 6   | 7    | 8   |
|------------------|------|-----|------|-----|------|-----|------|-----|
| Movement         | NBL  | SBT | EBL  | WBT | SBL  | NBT | WBL  | EBT |
| NOTES            | PROT |     | PROT |     | PROT |     | PROT |     |
| MIN GRN          | 5    | 7   | 5    | 10  | 5    | 7   | 5    | 10  |
| BK MGRN          |      |     |      |     |      |     |      |     |
| CS MGRN          |      |     |      |     |      |     |      |     |
| DLY GRN          |      |     |      |     |      |     |      |     |
| WALK             |      | 4   |      | 4   |      | 4   |      | 4   |
| WALK2            |      |     |      |     |      |     |      |     |
| WLK MAX          |      |     |      |     |      |     |      |     |
| PED CLR/FDW      | 24   |     | 22   |     | 28   |     | 22   |     |
| PD CLR2          |      |     |      |     |      |     |      |     |
| PC MAX           |      |     |      |     |      |     |      |     |
| PED CO           |      |     |      |     |      |     |      |     |
| VEH EXT          | 2    | 1   | 2    | 1   | 2    | 1   | 2    | 1   |
| VH EXT2          |      |     |      |     |      |     |      |     |
| MAX 1            | 20   | 50  | 20   | 50  | 20   | 50  | 15   | 50  |
| MAX 2            | 30   | 60  | 30   | 60  | 30   | 60  | 25   | 60  |
| MAX 3            |      |     |      |     |      |     |      |     |
| DYM MAX          |      |     |      |     |      |     |      |     |
| DYM STP          |      |     |      |     |      |     |      |     |
| YELLOW           | 3.6  | 4.4 | 3.3  | 4   | 3.6  | 4.4 | 3.3  | 4   |
| RED CLR          | 2    | 1.3 | 2    | 1.5 | 2    | 1.1 | 1.9  | 1.4 |
| RED MAX          |      |     |      |     |      |     |      |     |
| RED RVT          | 2    | 2   | 2    | 2   | 2    | 2   | 2    | 2   |
| ACT B4           |      |     |      |     |      |     |      |     |
| SEC/ACT          |      |     |      |     |      |     |      |     |
| MAX INT          |      |     |      |     |      |     |      |     |
| TIME B4          |      |     |      |     |      |     |      |     |
| CARS WT          |      |     |      |     |      |     |      |     |
| STPTDUC          |      |     |      |     |      |     |      |     |
| TTREDUC          |      |     |      |     |      |     |      |     |
| MIN GAP          |      |     |      |     |      |     |      |     |
| RECALLS - MM-2-8 |      |     |      |     |      |     |      |     |
| LOCK DET         |      |     |      |     |      |     |      |     |
| VEH RECALL       |      | X   |      | X   |      | X   |      | X   |
| PED RECALL       |      |     |      |     |      |     |      |     |
| MAX RECALL       |      |     |      |     |      |     |      |     |
| SOFT RECALL      |      |     |      |     |      |     |      |     |
| NO REST          |      |     |      |     |      |     |      |     |
| ADD INIT CAL     |      |     |      |     |      |     |      |     |

NOTES

Advance detection for phases 2,4,6 & 8.



| PHASING SEQUENCES    |  |  |  |  |  |   |   |
|----------------------|--|--|--|--|--|---|---|
| TOD: MORNING         |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B                  |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: MIDDAY          |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B                  |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: EVENING         |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B                  |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: NIGHT           |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B                  |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| FREE                 |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B                  |  |  |  |  |  |   |   |
| Use Timing plan: 254 |  |  |  |  |  |   |   |

EXPIRES XX/XX/XXXX

| INDIAN SCHOOL & GOLDWATER                           |         |     |      |      |        |     |      |     | System #  | 44                  |
|---|---------|-----|------|------|--------|-----|------|-----|-----------|---------------------|
| COORDINATOR   |         |     |      |      |        |     |      |     | Section # | Date Updated        |
|   |         |     |      |      |        |     |      |     | 0         | 12/12/2016          |
|   | PHASE   | 1   | 2    | 3    | 4      | 5   | 6    | 7   | 8         |                     |
|   | FDW     |     | 24   |      | 22     |     | 28   |     | 22        |                     |
|   | YELLOW  | 3.6 | 4.4  | 3.3  | 4      | 3.6 | 4.4  | 3.3 | 4         |                     |
|   | ALL RED | 2   | 1.3  | 2    | 1.5    | 2   | 1.1  | 1.9 | 1.4       |                     |
|   | WALK    |     | 24   |      | 22     |     | 28   |     | 22        |                     |
| PLAN 1<br>AM PLAN<br>OPERATIVE<br>TIMES<br>6:30     | R1      | 1   | ↖    | 2    | ↓      | 3   | ↑    | 4   | ←         | COORD PATTERN       |
|   | R2      | 5   | ↳    | 6    | ↑      | 8   | →    | 7   | ↓         | Balanced            |
|   | RING 1  |     |      |      | RING 2 |     |      |     |           |                     |
|   | PHASE   | 1   | 2    | 3    | 4      | 5   | 6    | 7   | 8         |                     |
|   | SPLIT   | 15  | 37   | 22   | 46     | 12  | 40   | 14  | 54        | Target Cycle Length |
|   | COORD   |     |      |      | X      |     |      |     | X         | 120                 |
|   | RECALLS |     |      |      | V      |     |      |     | V         | Actual Cycle Length |
|   | GREEN   | 9.4 | 31.3 | 16.7 | 40.5   | 6.4 | 34.5 | 8.8 | 48.6      | 120                 |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE<br>TIMES<br>9:00 | R1      | 2   | ↓    | 1    | ↖      | 4   | ←    | 3   | ↑         | COORD PATTERN       |
|   | R2      | 6   | ↑    | 5    | ↳      | 7   | ↓    | 8   | →         | Balanced            |
|   | RING 1  |     |      |      | RING 2 |     |      |     |           |                     |
|   | PHASE   | 1   | 2    | 3    | 4      | 5   | 6    | 7   | 8         |                     |
|   | SPLIT   | 14  | 42   | 20   | 44     | 16  | 40   | 12  | 52        | Target Cycle Length |
|   | COORD   |     |      |      | X      |     |      |     | X         | 120                 |
|   | RECALLS |     |      |      | V      |     |      |     | V         | Actual Cycle Length |
|   | GREEN   | 8.4 | ###  | ###  | ###    | ### | ###  | 6.8 | ###       | 120                 |
| PLAN 7<br>PM PLAN<br>OPERATIVE<br>TIMES<br>15:00    | R1      | 2   | ↓    | 1    | ↖      | 4   | ←    | 3   | ↑         | COORD PATTERN       |
|   | R2      | 6   | ↑    | 5    | ↳      | 7   | ↓    | 8   | →         | Balanced            |
|   | RING 1  |     |      |      | RING 2 |     |      |     |           |                     |
|   | PHASE   | 1   | 2    | 3    | 4      | 5   | 6    | 7   | 8         |                     |
|   | SPLIT   | 12  | 42   | 18   | 48     | 12  | 42   | 12  | 54        | Target Cycle Length |
|   | COORD   |     |      |      | X      |     |      |     | X         | 120                 |
|   | RECALLS |     |      |      | V      |     |      |     | V         | Actual Cycle Length |
|   | GREEN   | 6.4 | ###  | ###  | ###    | ### | 6.4  | ### | 6.8       | ###                 |
| PLAN 10<br>MIDNIGHT<br>PLAN<br>OPERATIVE<br>TIMES   | R1      | 2   | ↓    | 1    | ↖      | 4   | ←    | 3   | ↑         | COORD PATTERN       |
|   | R2      | 6   | ↑    | 5    | ↳      | 8   | →    | 7   | ↓         | Balanced            |
|   | RING 1  |     |      |      | RING 2 |     |      |     |           |                     |
|   | PHASE   | 1   | 2    | 3    | 4      | 5   | 6    | 7   | 8         |                     |
|   | SPLIT   | 13  | 39   | 23   | 15     | 13  | 39   | 15  | 23        | Target Cycle Length |

|   |         |        |      |      |      |        |      |      |                     |
|---|---------|--------|------|------|------|--------|------|------|---------------------|
| 20:00                                     | COORD   |        |      |      | X    |        |      | X    | 90                  |
|   | RECALLS |        |      |      | V    |        |      | V    | Actual Cycle Length |
|   | GREEN   | 7.4    | ###  | ###  | 9.5  | 7.4    | ###  | 9.8  | ###                 |
| PLAN 254<br>FREE PLAN<br>OPERATIVE TIMES  | R1      | 2      | ↓    | 1    | ↖    | 4      | ←    | 3    | ↑                   |
|   | R2      | 6      | ↑    | 5    | ↳    | 8      | →    | 7    | ↓                   |
|   |         | RING 1 |      |      |      | RING 2 |      |      |                     |
|   | PHASE   | 1      | 2    | 3    | 4    | 5      | 6    | 7    | 8                   |
|   | SPLIT   |        |      |      |      |        |      |      | Target Cycle Length |
|   | COORD   |        |      |      |      |        |      |      | XXX                 |
|   | RECALLS |        |      |      |      |        |      |      | Actual Cycle Length |
|   | GREEN   | -5.6   | -5.7 | -5.3 | -5.5 | -5.6   | -5.5 | -5.2 | -5.4                |
| PLAN 0<br>AUTO PLAN<br>OPERATIVE TIMES    | R1      |        |      |      |      |        |      |      | COORD PATTERN       |
|   | R2      |        |      |      |      |        |      |      | OFFSET              |
|   |         | RING 1 |      |      |      | RING 2 |      |      |                     |
|   | PHASE   |        |      |      |      |        |      |      |                     |
|   | SPLIT   |        |      |      |      |        |      |      | Target Cycle Length |
|   | COORD   |        |      |      |      |        |      |      | XXX                 |
|   | RECALLS |        |      |      |      |        |      |      | Actual Cycle Length |
|   | GREEN   | -5.6   | -5.7 | -5.3 | -5.5 | -5.6   | -5.5 | -5.2 | -5.4                |
| PLAN 5<br>SPECIAL PLAN<br>OPERATIVE TIMES | R1      |        |      |      |      |        |      |      | COORD PATTERN       |
|   | R2      |        |      |      |      |        |      |      | OFFSET              |
|   |         | RING 1 |      |      |      | RING 2 |      |      |                     |
|   | PHASE   |        |      |      |      |        |      |      |                     |
|   | SPLIT   |        |      |      |      |        |      |      | Target Cycle Length |
|   | COORD   |        |      |      |      |        |      |      | XXX                 |
|   | RECALLS |        |      |      |      |        |      |      | Actual Cycle Length |
|   | GREEN   | -5.6   | -5.7 | -5.3 | -5.5 | -5.6   | -5.5 | -5.2 | -5.4                |
| PLAN 6<br>SPECIAL PLAN<br>OPERATIVE TIMES | R1      |        |      |      |      |        |      |      | COORD PATTERN       |
|   | R2      |        |      |      |      |        |      |      | OFFSET              |
|   |         | RING 1 |      |      |      | RING 2 |      |      |                     |
|   | PHASE   |        |      |      |      |        |      |      |                     |
|   | SPLIT   |        |      |      |      |        |      |      | Target Cycle Length |
|   | COORD   |        |      |      |      |        |      |      | XXX                 |
|   | RECALLS |        |      |      |      |        |      |      | Actual Cycle Length |
|   | GREEN   | -5.6   | -5.7 | -5.3 | -5.5 | -5.6   | -5.5 | -5.2 | -5.4                |

EMERGENCY PLANS

|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>THRU | R1      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 1 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 1 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 1 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -6 | -6 | -5 | -6 | -6 | -6 | -5 | -5 | 0                                    |        |

|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>LEFT | R1      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 2 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 2 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 2 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -6 | -6 | -5 | -6 | -6 | -6 | -5 | -5 | 0                                    |        |

|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTHBOUND<br>THRU & LEFT | R1      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 3 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 3 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 3 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -6 | -6 | -5 | -6 | -6 | -6 | -5 | -5 | 0                                    |        |

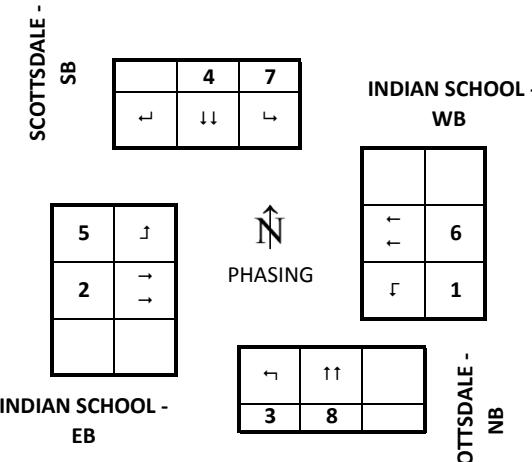
|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>SOUTHBOUND<br>THRU & LEFT | R1      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | ↓  | 1  | ↖  | 4  | ←  | 3  | ↑  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 4 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 4 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 4 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -6 | -6 | -5 | -6 | -6 | -6 | -5 | -5 | 0                                    |        |

|   |         |        |   |   |   |        |   |   |   |                                      |        |
|---|---------|--------|---|---|---|--------|---|---|---|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST THRU           | R1      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 5 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 5 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 5 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST LEFT           | R1      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 6 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 6 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 6 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EASTBOUND<br>THRU & LEFT | R1      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 7 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 7 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 7 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>WESTBOUND<br>THRU & LEFT | R1      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | ↓ | 1 | ↖ | 4      | ← | 3 | ↑ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 8 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 8 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 8 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    |        |

|                            |  |  |  |           |                         |  |               |             |
|----------------------------|--|--|--|-----------|-------------------------|--|---------------|-------------|
| INDIAN SCHOOL & SCOTTSDALE |  |  |  |           |                         |  |               | System # 45 |
| BASIC TIMING PLAN          |  |  |  | Section # | I.P. Address<br>MM1-5-1 |  | Date Designed |             |
|                            |  |  |  |           | 172.17.10.45            |  | 12/29/2016    |             |

| Phase            | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Movement         | WBL | EBT | NBL | SBT | EBL | WBT | SBL | NBT |
| NOTES            | p&P |     | p&P |     | p&P |     | p&P |     |
| MIN GRN          | 5   | 10  | 5   | 10  | 5   | 10  | 5   | 10  |
| BK MGRN          |     |     |     |     |     |     |     |     |
| CS MGRN          |     |     |     |     |     |     |     |     |
| DLY GRN          |     |     |     |     |     |     |     |     |
| WALK             |     | 8   |     | 8   |     | 8   |     | 8   |
| WALK2            |     |     |     |     |     |     |     |     |
| WLK MAX          |     |     |     |     |     |     |     |     |
| PED CLR/FDW      |     | 22  |     | 20  |     | 22  |     | 20  |
| PD CLR2          |     |     |     |     |     |     |     |     |
| PC MAX           |     |     |     |     |     |     |     |     |
| PED CO           |     |     |     |     |     |     |     |     |
| VEH EXT          | 2   | 1   | 2   | 2   | 2   | 1   | 2   | 2   |
| VH EXT2          |     |     |     |     |     |     |     |     |
| MAX 1            | 15  | 40  | 15  | 60  | 15  | 40  | 15  | 60  |
| MAX 2            | 35  | 55  | 45  | 65  | 35  | 55  | 45  | 65  |
| MAX 3            |     |     |     |     |     |     |     |     |
| DYM MAX          |     |     |     |     |     |     |     |     |
| DYM STP          |     |     |     |     |     |     |     |     |
| YELLOW           | 3   | 3.6 | 3.3 | 4   | 3   | 3.6 | 3.3 | 4   |
| RED CLR          | 2   | 1.6 | 1.8 | 1.4 | 2   | 1.6 | 1.8 | 1.4 |
| RED MAX          |     |     |     |     |     |     |     |     |
| RED RVT          | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 2   |
| ACT B4           |     |     |     |     |     |     |     |     |
| SEC/ACT          |     |     |     |     |     |     |     |     |
| MAX INT          |     |     |     |     |     |     |     |     |
| TIME B4          |     |     |     |     |     |     |     |     |
| CARS WT          |     |     |     |     |     |     |     |     |
| STPTDUC          |     |     |     |     |     |     |     |     |
| TTREDUC          |     |     |     |     |     |     |     |     |
| MIN GAP          |     |     |     |     |     |     |     |     |
| RECALLS - MM-2-8 |     |     |     |     |     |     |     |     |
| LOCK DET         |     |     |     |     |     |     |     |     |
| VEH RECALL       |     | X   |     | X   |     | X   |     | X   |
| PED RECALL       |     |     |     |     |     |     |     |     |
| MAX RECALL       |     |     |     |     |     |     |     |     |
| SOFT RECALL      |     |     |     |     |     |     |     |     |
| NO REST          |     |     |     |     |     |     |     |     |
| ADD INIT CAL     |     |     |     |     |     |     |     |     |

NOTES



| PHASING SEQUENCES    |  |  |  |  |  |   |   |
|----------------------|--|--|--|--|--|---|---|
| TOD: MORNING         |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B B              |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: MIDDAY          |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B B              |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: EVENING         |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B B              |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: WEEKEND         |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B B              |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| FREE                 |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B B              |  |  |  |  |  |   |   |
| Use Timing plan: 254 |  |  |  |  |  |   |   |

EXPIRES XX/XX/XXXX

| INDIAN SCHOOL & SCOTTSDALE                  |         |     |      |     |        |     |      |     | System #  | 45                  |        |
|---|---------|-----|------|-----|--------|-----|------|-----|-----------|---------------------|--------|
| COORDINATOR                                 |         |     |      |     |        |     |      |     | Section # | Date Updated        |        |
|   |         |     |      |     |        |     |      |     | 0         | 12/29/2016          |        |
|   | PHASE   | 1   | 2    | 3   | 4      | 5   | 6    | 7   | 8         |                     |        |
|   | FDW     |     | 22   |     | 20     |     | 22   |     | 20        |                     |        |
|   | YELLOW  | 3   | 3.6  | 3.3 | 4      | 3   | 3.6  | 3.3 | 4         |                     |        |
|   | ALL RED | 2   | 1.6  | 1.8 | 1.4    | 2   | 1.6  | 1.8 | 1.4       |                     |        |
|   | WALK    |     | 22   |     | 20     |     | 22   |     | 20        |                     |        |
| PLAN 1<br>AM PLAN<br>OPERATIVE<br>TIMES     | R1      | 2   | →    | 1   | ↓      | 4   | ↓    | 3   | ↶         | COORD<br>PATTERN    | OFFSET |
|   | R2      | 6   | ←    | 5   | ↑      | 8   | ↑    | 7   | ↷         | Balanced            | 0      |
|   | RING 1  |     |      |     | RING 2 |     |      |     |           |                     |        |
|   | PHASE   | 1   | 2    | 3   | 4      | 5   | 6    | 7   | 8         |                     |        |
|   | SPLIT   | 14  | 38   | 14  | 54     | 14  | 38   | 14  | 54        | Target Cycle Length |        |
|   | COORD   | X   |      |     |        | X   |      |     |           | 120                 |        |
|   | RECALLS | V   |      | V   |        | V   |      | V   |           | Actual Cycle Length |        |
|   | GREEN   | 9.0 | 32.8 | 8.9 | 48.6   | 9.0 | 32.8 | 8.9 | 48.6      | 120                 |        |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE<br>TIMES | R1      | 2   | →    | 1   | ↓      | 4   | ↓    | 3   | ↶         | COORD<br>PATTERN    | OFFSET |
|   | R2      | 6   | ←    | 5   | ↑      | 8   | ↑    | 7   | ↷         | Balanced            | 19     |
|   | RING 1  |     |      |     | RING 2 |     |      |     |           |                     |        |
|   | PHASE   | 1   | 2    | 3   | 4      | 5   | 6    | 7   | 8         |                     |        |
|   | SPLIT   | 16  | 42   | 13  | 49     | 16  | 42   | 13  | 49        | Target Cycle Length |        |
|   | COORD   | X   |      |     |        | X   |      |     |           | 120                 |        |
|   | RECALLS | V   |      | V   |        | V   |      | V   |           | Actual Cycle Length |        |
|   | GREEN   | ### | ###  | 7.9 | ###    | ### | ###  | 7.9 | ###       | 120                 |        |
| PLAN 7<br>PM PLAN<br>OPERATIVE<br>TIMES     | R1      | 2   | →    | 1   | ↓      | 4   | ↓    | 3   | ↶         | COORD<br>PATTERN    | OFFSET |
|   | R2      | 6   | ←    | 5   | ↑      | 8   | ↑    | 7   | ↷         | Balanced            |        |
|   | RING 1  |     |      |     | RING 2 |     |      |     |           |                     |        |
|   | PHASE   | 1   | 2    | 3   | 4      | 5   | 6    | 7   | 8         |                     |        |
|   | SPLIT   | 20  | 42   | 16  | 42     | 20  | 42   | 16  | 42        | Target Cycle Length |        |
|   | COORD   | X   |      |     |        | X   |      |     |           | 120                 |        |
|   | RECALLS | V   |      | V   |        | V   |      | V   |           | Actual Cycle Length |        |
|   | GREEN   | ### | ###  | ### | ###    | ### | ###  | ### | ###       | 120                 |        |
| PLAN 10<br>MIDNIGHT<br>PLAN<br>OPERATIVE    | R1      | 2   | →    | 1   | ↓      | 4   | ↓    | 3   | ↶         | COORD<br>PATTERN    | OFFSET |
|   | R2      | 6   | ←    | 5   | ↑      | 8   | ↑    | 7   | ↷         | Balanced            | 0      |
|   | RING 1  |     |      |     | RING 2 |     |      |     |           |                     |        |
|   | PHASE   | 1   | 2    | 3   | 4      | 5   | 6    | 7   | 8         |                     |        |
|   | SPLIT   | 12  | 28   | 12  | 38     | 12  | 28   | 12  | 38        | Target Cycle Length |        |

|  |         |        |      |      |      |        |      |      |      |                     |
|--|---------|--------|------|------|------|--------|------|------|------|---------------------|
| TIMES  | COORD   |        | X    |      |      |        | X    |      |      | 90                  |
|  | RECALLS |        | V    |      | V    |        | V    |      | V    | Actual Cycle Length |
|  | GREEN   | 7.0    | ###  | 6.9  | ###  | 7.0    | ###  | 6.9  | ###  | 90                  |
| PLAN 254<br><b>FREE PLAN</b><br>OPERATIVE TIMES  | R1      | 2      | →    | 1    | ↓    | 4      | ↓    | 3    | ↖    | COORD PATTERN       |
|  | R2      | 6      | ←    | 5    | ↑    | 8      | ↑    | 7    | ↘    | Balanced            |
|  |         | RING 1 |      |      |      | RING 2 |      |      |      |                     |
|  | PHASE   | 1      | 2    | 3    | 4    | 5      | 6    | 7    | 8    |                     |
|  | SPLIT   |        |      |      |      |        |      |      |      | Target Cycle Length |
|  | COORD   |        |      |      |      |        |      |      |      | XXX                 |
|  | RECALLS |        |      |      |      |        |      |      |      | Actual Cycle Length |
|  | GREEN   | -5.0   | -5.2 | -5.1 | -5.4 | -5.0   | -5.2 | -5.1 | -5.4 | 0                   |
| PLAN 0<br><b>AUTO PLAN</b><br>OPERATIVE TIMES    | R1      |        |      |      |      |        |      |      |      | COORD PATTERN       |
|  | R2      |        |      |      |      |        |      |      |      | Balanced            |
|  |         | RING 1 |      |      |      | RING 2 |      |      |      |                     |
|  | PHASE   |        |      |      |      |        |      |      |      |                     |
|  | SPLIT   |        |      |      |      |        |      |      |      | Target Cycle Length |
|  | COORD   |        |      |      |      |        |      |      |      | XXX                 |
|  | RECALLS |        |      |      |      |        |      |      |      | Actual Cycle Length |
|  | GREEN   | -5.0   | -5.2 | -5.1 | -5.4 | -5.0   | -5.2 | -5.1 | -5.4 | 0                   |
| PLAN 5<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |      |      |        |      |      |      | COORD PATTERN       |
|  | R2      |        |      |      |      |        |      |      |      | Balanced            |
|  |         | RING 1 |      |      |      | RING 2 |      |      |      |                     |
|  | PHASE   |        |      |      |      |        |      |      |      |                     |
|  | SPLIT   |        |      |      |      |        |      |      |      | Target Cycle Length |
|  | COORD   |        |      |      |      |        |      |      |      | XXX                 |
|  | RECALLS |        |      |      |      |        |      |      |      | Actual Cycle Length |
|  | GREEN   | -5.0   | -5.2 | -5.1 | -5.4 | -5.0   | -5.2 | -5.1 | -5.4 | 0                   |
| PLAN 6<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |      |      |        |      |      |      | COORD PATTERN       |
|  | R2      |        |      |      |      |        |      |      |      | Balanced            |
|  |         | RING 1 |      |      |      | RING 2 |      |      |      |                     |
|  | PHASE   |        |      |      |      |        |      |      |      |                     |
|  | SPLIT   |        |      |      |      |        |      |      |      | Target Cycle Length |
|  | COORD   |        |      |      |      |        |      |      |      | XXX                 |
|  | RECALLS |        |      |      |      |        |      |      |      | Actual Cycle Length |
|  | GREEN   | -5.0   | -5.2 | -5.1 | -5.4 | -5.0   | -5.2 | -5.1 | -5.4 | 0                   |

EMERGENCY PLANS

|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>THRU | R1      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 1 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 1 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 1 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | 0                                    |        |

|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>LEFT | R1      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 2 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 2 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 2 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | 0                                    |        |

|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTHBOUND<br>THRU & LEFT | R1      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 3 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 3 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 3 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | 0                                    |        |

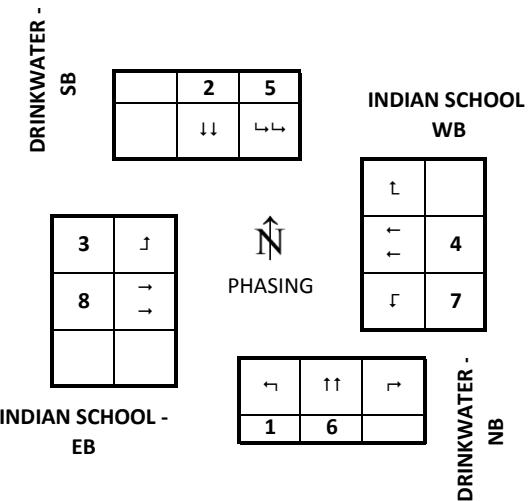
|  |         |    |    |    |    |    |    |    |    |                                      |        |
|--|---------|----|----|----|----|----|----|----|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>SOUTHBOUND<br>THRU & LEFT | R1      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2  | →  | 1  | ↓  | 4  | ↓  | 3  | ↔  |                                      |        |
|  |         |    |    |    |    |    |    |    |    | NB - 4 7                             |        |
|  |         |    |    |    |    |    |    |    |    | SB - 4 8                             |        |
|  | PHASE   | 1  | 2  | 3  | 4  |    |    |    |    | N/S - 4 9                            |        |
|  | SPLIT   |    |    |    |    |    |    |    |    | Target Cycle Length                  |        |
|  | COORD   |    |    |    |    |    |    |    |    | XXX                                  |        |
|  | RECALLS |    |    |    |    |    |    |    |    | Actual Cycle Length                  |        |
|  | GREEN   | -5 | -5 | -5 | -5 | -5 | -5 | -5 | -5 | 0                                    |        |

|   |         |        |   |   |   |        |   |   |   |                                      |        |
|---|---------|--------|---|---|---|--------|---|---|---|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST THRU           | R1      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 5 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 5 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 5 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    | 0      |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST LEFT           | R1      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 6 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 6 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 6 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    | 0      |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EASTBOUND<br>THRU & LEFT | R1      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 7 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 7 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 7 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    | 0      |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>WESTBOUND<br>THRU & LEFT | R1      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2      | → | 1 | ↓ | 4      | ↓ | 3 | ↖ |                                      |        |
|   |         |        |   |   |   |        |   |   |   | EB - 8 7                             |        |
|   |         | RING 1 |   |   |   | RING 2 |   |   |   | WB - 8 8                             |        |
|   | PHASE   |        |   |   |   |        |   |   |   | E/W - 8 9                            |        |
|   | SPLIT   |        |   |   |   |        |   |   |   | Target Cycle Length                  |        |
|   | COORD   |        |   |   |   |        |   |   |   | XXX                                  |        |
|   | RECALLS |        |   |   |   |        |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0      | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0                                    | 0      |

|                            |  |  |  |           |                         |               |  |             |
|----------------------------|--|--|--|-----------|-------------------------|---------------|--|-------------|
| INDIAN SCHOOL & DRINKWATER |  |  |  |           |                         |               |  | System # 47 |
| BASIC TIMING PLAN          |  |  |  | Section # | I.P. Address<br>MM1-5-1 | Date Designed |  |             |
|                            |  |  |  |           | 172.27.10.47            | 12/20/2016    |  |             |

| Phase            | 1    | 2   | 3   | 4   | 5    | 6   | 7   | 8   |
|------------------|------|-----|-----|-----|------|-----|-----|-----|
| Movement         | NBL  | SBT | EBL | WBT | SBL  | NBT | WBL | EBT |
| NOTES            | PROT |     | p&P |     | PROT |     | p&P |     |
| MIN GRN          | 5    | 7   | 5   | 10  | 5    | 7   | 5   | 10  |
| BK MGRN          |      |     |     |     |      |     |     |     |
| CS MGRN          |      |     |     |     |      |     |     |     |
| DLY GRN          |      |     |     |     |      |     |     |     |
| WALK             |      | 4   |     | 4   |      | 4   |     | 4   |
| WALK2            |      |     |     |     |      |     |     |     |
| WLK MAX          |      |     |     |     |      |     |     |     |
| PED CLR/FDW      |      | 20  |     | 19  |      | 20  |     | 21  |
| PD CLR2          |      |     |     |     |      |     |     |     |
| PC MAX           |      |     |     |     |      |     |     |     |
| PED CO           |      |     |     |     |      |     |     |     |
| VEH EXT          | 2    |     | 2   |     | 2    |     | 2   |     |
| VH EXT2          |      |     |     |     |      |     |     |     |
| MAX 1            | 15   | 40  | 15  | 60  | 15   | 40  | 15  | 60  |
| MAX 2            | 25   | 55  | 25  | 75  | 25   | 55  | 25  | 75  |
| MAX 3            |      |     |     |     |      |     |     |     |
| DYM MAX          |      |     |     |     |      |     |     |     |
| DYM STP          |      |     |     |     |      |     |     |     |
| YELLOW           | 3.3  | 4.0 | 3.3 | 4   | 3.3  | 4   | 3.3 | 4   |
| RED CLR          | 2    | 1.1 | 2   | 1.2 | 2    | 1.1 | 2   | 1.2 |
| RED MAX          |      |     |     |     |      |     |     |     |
| RED RVT          | 2    | 2   | 2   | 2   | 2    | 2   | 2   | 2   |
| ACT B4           |      |     |     |     |      |     |     |     |
| SEC/ACT          |      |     |     |     |      |     |     |     |
| MAX INT          |      |     |     |     |      |     |     |     |
| TIME B4          |      |     |     |     |      |     |     |     |
| CARS WT          |      |     |     |     |      |     |     |     |
| STPTDUC          |      |     |     |     |      |     |     |     |
| TTREDUC          |      |     |     |     |      |     |     |     |
| MIN GAP          |      |     |     |     |      |     |     |     |
| RECALLS - MM-2-8 |      |     |     |     |      |     |     |     |
| LOCK DET         |      |     |     |     |      |     |     |     |
| VEH RECALL       |      |     | X   |     |      | X   |     |     |
| PED RECALL       |      |     |     |     |      |     |     |     |
| MAX RECALL       |      |     |     |     |      |     |     |     |
| SOFT RECALL      |      |     |     |     |      |     |     |     |
| NO REST          |      |     |     |     |      |     |     |     |
| ADD INIT CAL     |      |     |     |     |      |     |     |     |

|       |
|-------|
| NOTES |
|-------|



| PHASING SEQUENCES    |  |  |  |  |  |   |   |
|----------------------|--|--|--|--|--|---|---|
| TOD: MORNING         |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B                |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: MIDDAY          |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B                |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: EVENING         |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B                |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| TOD: NIGHT           |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B                |  |  |  |  |  |   |   |
| Use Timing plan:     |  |  |  |  |  |   |   |
| FREE                 |  |  |  |  |  |   |   |
| R1                   |  |  |  |  |  | 2 | 1 |
| R2                   |  |  |  |  |  | 6 | 5 |
| B B B                |  |  |  |  |  |   |   |
| Use Timing plan: 254 |  |  |  |  |  |   |   |

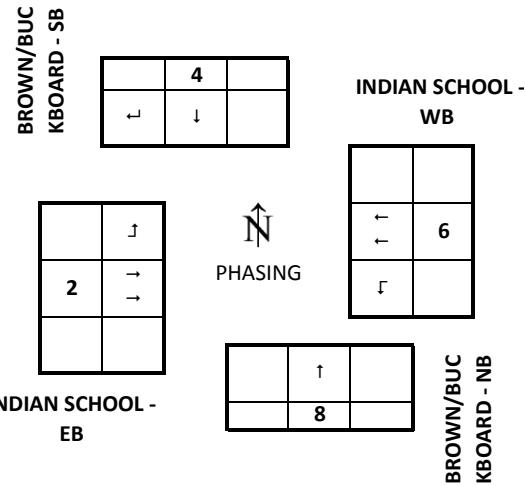
EXPIRES XX/XX/XXXX

| INDIAN SCHOOL & DRINKWATER                                 |         |     |      |      |        |      |      |      | System #  | 47                  |        |
|--|---------|-----|------|------|--------|------|------|------|-----------|---------------------|--------|
| COORDINATOR  |         |     |      |      |        |      |      |      | Section # | Date Updated        |        |
|  |         |     |      |      |        |      |      |      | 0         | 12/20/2016          |        |
| PLAN 1<br>AM PLAN<br>OPERATIVE<br>TIMES<br>6:30            | PHASE   | 1   | 2    | 3    | 4      | 5    | 6    | 7    | 8         |                     |        |
|  | FDW     |     | 20   |      | 19     |      | 20   |      | 21        |                     |        |
| PLAN 1<br>AM PLAN<br>OPERATIVE<br>TIMES<br>6:30            | YELLOW  | 3.3 | 4    | 3.3  | 4      | 3.3  | 4    | 3.3  | 4         |                     |        |
|  | ALL RED | 2   | 1.1  | 2    | 1.2    | 2    | 1.1  | 2    | 1.2       |                     |        |
| PLAN 1<br>AM PLAN<br>OPERATIVE<br>TIMES<br>6:30            | WALK    |     | 20   |      | 19     |      | 20   |      | 21        |                     |        |
|  | R1      | 2   | ↓    | 1    | ↖      | 4    | ←    | 3    | ↑         | COORD PATTERN       |        |
| PLAN 1<br>AM PLAN<br>OPERATIVE<br>TIMES<br>6:30            | R2      | 6   | ↑    | 5    | ↳      | 8    | →    | 7    | ↓         | Balanced            |        |
|  | RING 1  |     |      |      | RING 2 |      |      |      |           | 119                 |        |
| AM PLAN<br>OPERATIVE<br>TIMES<br>6:30                      | PHASE   | 1   | 2    | 3    | 4      | 5    | 6    | 7    | 8         |                     |        |
|  | SPLIT   | 13  | 35   | 20   | 52     | 13   | 35   | 20   | 52        | Target Cycle Length |        |
| AM PLAN<br>OPERATIVE<br>TIMES<br>6:30                      | COORD   |     |      |      | X      |      |      |      | X         | 120                 |        |
|  | RECALLS |     |      |      | V      |      |      |      | V         | Actual Cycle Length |        |
| AM PLAN<br>OPERATIVE<br>TIMES<br>6:30                      | GREEN   | 7.7 | 29.9 | 14.7 | 46.8   | 7.7  | 29.9 | 14.7 | 46.8      | 120                 |        |
|  | R1      | 2   | ↓    | 1    | ↖      | 4    | ←    | 3    | ↑         | COORD PATTERN       | OFFSET |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE<br>TIMES<br>9:00        | R2      | 6   | ↑    | 5    | ↳      | 8    | →    | 7    | ↓         | Balanced            | 33     |
|  | RING 1  |     |      |      | RING 2 |      |      |      |           |                     |        |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE<br>TIMES<br>9:00        | PHASE   | 1   | 2    | 3    | 4      | 5    | 6    | 7    | 8         |                     |        |
|  | SPLIT   | 12  | 34   | 20   | 54     | 18   | 28   | 20   | 54        | Target Cycle Length |        |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE<br>TIMES<br>9:00        | COORD   |     |      |      | X      |      |      |      | X         | 120                 |        |
|  | RECALLS |     |      |      | V      |      |      |      | V         | Actual Cycle Length |        |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE<br>TIMES<br>9:00        | GREEN   | 6.7 | 28.9 | 14.7 | 48.8   | 12.7 | 22.9 | 14.7 | 48.8      | 120                 |        |
| PLAN 7<br>PM PLAN<br>OPERATIVE<br>TIMES<br>15:00           | R1      | 2   | ↓    | 1    | ↖      | 4    | ←    | 3    | ↑         | COORD PATTERN       | OFFSET |
|  | R2      | 6   | ↑    | 5    | ↳      | 8    | →    | 7    | ↓         | Balanced            | 18     |
| PLAN 7<br>PM PLAN<br>OPERATIVE<br>TIMES<br>15:00           | RING 1  |     |      |      | RING 2 |      |      |      |           |                     |        |
|  | PHASE   | 1   | 2    | 3    | 4      | 5    | 6    | 7    | 8         |                     |        |
| PLAN 7<br>PM PLAN<br>OPERATIVE<br>TIMES<br>15:00           | SPLIT   | 13  | 40   | 19   | 48     | 22   | 31   | 19   | 48        | Target Cycle Length |        |
|  | COORD   |     |      |      | X      |      |      |      | X         | 120                 |        |
| PLAN 7<br>PM PLAN<br>OPERATIVE<br>TIMES<br>15:00           | RECALLS |     |      |      | V      |      |      |      | V         | Actual Cycle Length |        |
|  | GREEN   | 7.7 | 34.9 | 13.7 | 42.8   | 16.7 | 25.9 | 13.7 | 42.8      | 120                 |        |
| PLAN 10<br>MIDNIGHT<br>PLAN<br>OPERATIVE<br>TIMES<br>22:00 | R1      | 2   | ↓    | 1    | ↖      | 4    | ←    | 3    | ↑         | COORD PATTERN       | OFFSET |
|  | R2      | 6   | ↑    | 5    | ↳      | 8    | →    | 7    | ↓         | Balanced            | 27     |
| PLAN 10<br>MIDNIGHT<br>PLAN<br>OPERATIVE<br>TIMES<br>22:00 | RING 1  |     |      |      | RING 2 |      |      |      |           |                     |        |
|  | PHASE   | 1   | 2    | 3    | 4      | 5    | 6    | 7    | 8         |                     |        |
| PLAN 10<br>MIDNIGHT<br>PLAN<br>OPERATIVE<br>TIMES<br>22:00 | SPLIT   | 12  | 27   | 11   | 40     | 12   | 27   | 11   | 40        | Target Cycle Length |        |
|  | COORD   |     |      |      | X      |      |      |      | X         | 90                  |        |
| PLAN 10<br>MIDNIGHT<br>PLAN<br>OPERATIVE<br>TIMES<br>22:00 | RECALLS |     |      |      | V      |      |      |      | V         | Actual Cycle Length |        |
|  | GREEN   | 6.7 | 21.9 | 5.7  | 34.8   | 6.7  | 21.9 | 5.7  | 34.8      | 90                  |        |

|                                 |  |  |           |                         |               |             |
|---------------------------------|--|--|-----------|-------------------------|---------------|-------------|
| INDIAN SCHOOL & BROWN/BUCKBOARD |  |  |           |                         |               | System # 75 |
| BASIC TIMING PLAN               |  |  | Section # | I.P. Address<br>MM1-5-1 | Date Designed |             |
|                                 |  |  |           | 172.17.10.75            | 12/29/2016    |             |

| Phase            | 2   | 4   | 6   | 8   |
|------------------|-----|-----|-----|-----|
| Movement         | EBT | SBT | WBT | NBT |
| NOTES            |     |     |     |     |
| MIN GRN          | 10  | 7   | 10  | 7   |
| BK MGRN          | 30  |     | 30  |     |
| CS MGRN          |     |     |     |     |
| DLY GRN          |     |     |     |     |
| WALK             | 7   | 7   | 7   | 7   |
| WALK2            |     |     |     |     |
| WLK MAX          |     |     |     |     |
| PED CLR/FDW      | 15  | 24  | 15  | 24  |
| PD CLR2          |     |     |     |     |
| PC MAX           |     |     |     |     |
| PED CO           |     |     |     |     |
| VEH EXT          | 2   | 2   | 2   | 2   |
| VH EXT2          |     |     |     |     |
| MAX 1            | 70  | 40  | 70  | 40  |
| MAX 2            | 90  | 50  | 90  | 50  |
| MAX 3            |     |     |     |     |
| DYM MAX          |     |     |     |     |
| DYM STP          |     |     |     |     |
| YELLOW           | 4.0 | 3.6 | 4   | 3.6 |
| RED CLR          | 1.4 | 2.0 | 1.4 | 1.4 |
| RED MAX          |     |     |     |     |
| RED RVT          | 2   | 2   | 2   | 2   |
| ACT B4           |     |     |     |     |
| SEC/ACT          |     |     |     |     |
| MAX INT          |     |     |     |     |
| TIME B4          |     |     |     |     |
| CARS WT          |     |     |     |     |
| STPTDUC          |     |     |     |     |
| TTREDUC          |     |     |     |     |
| MIN GAP          |     |     |     |     |
| RECALLS - MM-2-8 |     |     |     |     |
| LOCK DET         |     |     |     |     |
| VEH RECALL       |     |     |     |     |
| PED RECALL       | X   |     | X   |     |
| MAX RECALL       |     |     |     |     |
| SOFT RECALL      |     |     |     |     |
| NO REST          |     |     |     |     |
| ADD INIT CAL     |     |     |     |     |

NOTES



| PHASING SEQUENCES    |   |  |   |  |
|----------------------|---|--|---|--|
| TOD: MORNING         |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| TOD: MIDDAY          |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| TOD: EVENING         |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| TOD: WEEKEND         |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| FREE                 |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan: 254 |   |  |   |  |

EXPIRES XX/XX/XXXX

|  |         |   |      |   |           |   |              |          |      |                     |        |
|--|---------|---|------|---|-----------|---|--------------|----------|------|---------------------|--------|
| IAN SCHOOL & BROWN/BUCKBOA               |         |   |      |   |           |   |              | System # | 75   |                     |        |
| COORDINATOR                              |         |   |      |   | Section # |   | Date Updated |          |      |                     |        |
|  |         |   |      |   | 0         |   | 12/29/2016   |          |      |                     |        |
|  | PHASE   | 1 | 2    | 3 | 4         | 5 | 6            | 7        | 8    |                     |        |
|  | FDW     |   | 15   |   | 24        |   | 15           |          | 24   |                     |        |
|  | YELLOW  |   | 4    |   | 3.6       |   | 4            |          | 3.6  |                     |        |
|  | ALL RED |   | 1.4  |   | 2         |   | 1.4          |          | 1.4  |                     |        |
|  | WALK    |   | 15   |   | 24        |   | 15           |          | 24   |                     |        |
| PLAN 1<br>AM PLAN<br>OPERATIVE TIMES     | R1      | 2 | →    |   |           | 4 | ↓            |          |      | COORD PATTERN       | OFFSET |
|  | R2      | 6 | ←    |   |           | 8 | ↑            |          |      | Balanced            | 19     |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |                     |        |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |                     |        |
|  | SPLIT   |   | 80   |   | 40        |   | 80           |          | 40   | Target Cycle Length |        |
|  | COORD   |   | X    |   |           |   | X            |          |      |                     | 120    |
|  | RECALLS |   | V    |   |           |   | V            |          |      | Actual Cycle Length |        |
|  | GREEN   |   | 74.6 |   | 34.4      |   | 74.6         |          | 35.0 |                     | 120    |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE TIMES | R1      | 2 | →    |   |           | 4 | ↓            |          |      | COORD PATTERN       | OFFSET |
|  | R2      | 6 | ←    |   |           | 8 | ↑            |          |      | Balanced            | 118    |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |                     |        |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |                     |        |
|  | SPLIT   |   | 75   |   | 45        |   | 75           |          | 45   | Target Cycle Length |        |
|  | COORD   |   | X    |   |           |   | X            |          |      |                     | 120    |
|  | RECALLS |   | V    |   |           |   | V            |          |      | Actual Cycle Length |        |
|  | GREEN   |   | ###  |   | ###       |   | ###          |          | ###  |                     | 120    |
| PLAN 7<br>PM PLAN<br>OPERATIVE TIMES     | R1      | 2 | →    |   |           | 4 | ↓            |          |      | COORD PATTERN       | OFFSET |
|  | R2      | 6 | ←    |   |           | 8 | ↑            |          |      | Balanced            | 11     |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |                     |        |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |                     |        |
|  | SPLIT   |   | 75   |   | 45        |   | 75           |          | 45   | Target Cycle Length |        |
|  | COORD   |   | X    |   |           |   | X            |          |      |                     | 120    |
|  | RECALLS |   | V    |   |           |   | V            |          |      | Actual Cycle Length |        |
|  | GREEN   |   | ###  |   | ###       |   | ###          |          | ###  |                     | 120    |
| PLAN 10<br>MIDNIGHT PLAN<br>OPERATIVE    | R1      | 2 | →    |   |           | 4 | ↓            |          |      | COORD PATTERN       | OFFSET |
|  | R2      | 6 | ←    |   |           | 8 | ↑            |          |      | Balanced            | 44     |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |                     |        |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |                     |        |
|  | SPLIT   |   | 70   |   | 20        |   | 70           |          | 20   | Target Cycle Length |        |

|  |         |        |      |  |        |     |      |                     |                                       |
|--|---------|--------|------|--|--------|-----|------|---------------------|---------------------------------------|
| TIMES  | COORD   |        | X    |  |        | X   |      |                     | 90                                    |
|  | RECALLS |        | V    |  |        | V   |      |                     | Actual Cycle Length                   |
|  | GREEN   |        | ###  |  | ###    | ### | ###  |                     | 90                                    |
| PLAN 254<br><b>FREE PLAN</b><br>OPERATIVE TIMES  | R1      | 2      | →    |  | 4      | ↓   |      | COORD PATTERN       | OFFSET                                |
|  | R2      | 6      | ←    |  | 8      | ↑   |      | Balanced            |                                       |
|  |         | RING 1 |      |  | RING 2 |     |      |                     |                                       |
|  | PHASE   |        | 2    |  | 4      |     | 6    |                     | 8                                     |
|  | SPLIT   |        |      |  |        |     |      | Target Cycle Length |                                       |
|  | COORD   |        |      |  |        |     |      | XXX                 |                                       |
|  | RECALLS |        |      |  |        |     |      | Actual Cycle Length |                                       |
|  | GREEN   |        | -5.4 |  | -5.6   |     | -5.4 |                     | -5.0 <span style="color:red">0</span> |
| PLAN 0<br><b>AUTO PLAN</b><br>OPERATIVE TIMES    | R1      |        |      |  |        |     |      | COORD PATTERN       | OFFSET                                |
|  | R2      |        |      |  |        |     |      | Balanced            |                                       |
|  |         | RING 1 |      |  | RING 2 |     |      |                     |                                       |
|  | PHASE   |        |      |  |        |     |      |                     |                                       |
|  | SPLIT   |        |      |  |        |     |      | Target Cycle Length |                                       |
|  | COORD   |        |      |  |        |     |      | XXX                 |                                       |
|  | RECALLS |        |      |  |        |     |      | Actual Cycle Length |                                       |
|  | GREEN   |        | -5.4 |  | -5.6   |     | -5.4 |                     | -5.0 <span style="color:red">0</span> |
| PLAN 5<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |  |        |     |      | COORD PATTERN       | OFFSET                                |
|  | R2      |        |      |  |        |     |      | Balanced            |                                       |
|  |         | RING 1 |      |  | RING 2 |     |      |                     |                                       |
|  | PHASE   |        |      |  |        |     |      |                     |                                       |
|  | SPLIT   |        |      |  |        |     |      | Target Cycle Length |                                       |
|  | COORD   |        |      |  |        |     |      | XXX                 |                                       |
|  | RECALLS |        |      |  |        |     |      | Actual Cycle Length |                                       |
|  | GREEN   |        | -5.4 |  | -5.6   |     | -5.4 |                     | -5.0 <span style="color:red">0</span> |
| PLAN 6<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |  |        |     |      | COORD PATTERN       | OFFSET                                |
|  | R2      |        |      |  |        |     |      | Balanced            |                                       |
|  |         | RING 1 |      |  | RING 2 |     |      |                     |                                       |
|  | PHASE   |        |      |  |        |     |      |                     |                                       |
|  | SPLIT   |        |      |  |        |     |      | Target Cycle Length |                                       |
|  | COORD   |        |      |  |        |     |      | XXX                 |                                       |
|  | RECALLS |        |      |  |        |     |      | Actual Cycle Length |                                       |
|  | GREEN   |        | -5.4 |  | -5.6   |     | -5.4 |                     | -5.0 <span style="color:red">0</span> |

EMERGENCY PLANS

|               |         |   |    |  |    |   |        |  |    |                             |        |  |
|---------------|---------|---|----|--|----|---|--------|--|----|-----------------------------|--------|--|
| EXTREME PLAN  | R1      | 2 | →  |  |    | 4 | ↓      |  |    | COORD PATTERN - PLAN NUMBER | OFFSET |  |
|               | R2      | 2 | →  |  |    | 4 | ↓      |  |    |                             |        |  |
| NB - 1 7      |         |   |    |  |    |   |        |  |    |                             |        |  |
| SPLIT PATTERN | RING 1  |   |    |  |    |   | RING 2 |  |    |                             |        |  |
|               | PHASE   |   | 2  |  | 4  |   |        |  |    | N/S - 1 9                   |        |  |
|               | SPLIT   |   |    |  |    |   |        |  |    | Target Cycle Length         |        |  |
|               | COORD   |   |    |  |    |   |        |  |    | XXX                         |        |  |
|               | RECALLS |   |    |  |    |   |        |  |    | Actual Cycle Length         |        |  |
| GREEN         |         |   | -5 |  | -6 |   | -5     |  | -5 | 0                           |        |  |

|               |         |   |    |  |    |   |        |  |    |                             |        |  |
|---------------|---------|---|----|--|----|---|--------|--|----|-----------------------------|--------|--|
| EXTREME PLAN  | R1      | 2 | →  |  |    | 4 | ↓      |  |    | COORD PATTERN - PLAN NUMBER | OFFSET |  |
|               | R2      | 2 | →  |  |    | 4 | ↓      |  |    |                             |        |  |
| NB - 2 7      |         |   |    |  |    |   |        |  |    |                             |        |  |
| SPLIT PATTERN | RING 1  |   |    |  |    |   | RING 2 |  |    |                             |        |  |
|               | PHASE   |   | 2  |  | 4  |   |        |  |    | N/S - 2 9                   |        |  |
|               | SPLIT   |   |    |  |    |   |        |  |    | Target Cycle Length         |        |  |
|               | COORD   |   |    |  |    |   |        |  |    | XXX                         |        |  |
|               | RECALLS |   |    |  |    |   |        |  |    | Actual Cycle Length         |        |  |
| GREEN         |         |   | -5 |  | -6 |   | -5     |  | -5 | 0                           |        |  |

|               |         |   |    |  |    |   |        |  |    |                             |        |  |
|---------------|---------|---|----|--|----|---|--------|--|----|-----------------------------|--------|--|
| EXTREME PLAN  | R1      | 2 | →  |  |    | 4 | ↓      |  |    | COORD PATTERN - PLAN NUMBER | OFFSET |  |
|               | R2      | 2 | →  |  |    | 4 | ↓      |  |    |                             |        |  |
| NB - 3 7      |         |   |    |  |    |   |        |  |    |                             |        |  |
| SPLIT PATTERN | RING 1  |   |    |  |    |   | RING 2 |  |    |                             |        |  |
|               | PHASE   |   | 2  |  | 4  |   |        |  |    | N/S - 3 9                   |        |  |
|               | SPLIT   |   |    |  |    |   |        |  |    | Target Cycle Length         |        |  |
|               | COORD   |   |    |  |    |   |        |  |    | XXX                         |        |  |
|               | RECALLS |   |    |  |    |   |        |  |    | Actual Cycle Length         |        |  |
| GREEN         |         |   | -5 |  | -6 |   | -5     |  | -5 | 0                           |        |  |

|               |         |   |    |  |    |   |        |  |    |                             |        |  |
|---------------|---------|---|----|--|----|---|--------|--|----|-----------------------------|--------|--|
| EXTREME PLAN  | R1      | 2 | →  |  |    | 4 | ↓      |  |    | COORD PATTERN - PLAN NUMBER | OFFSET |  |
|               | R2      | 2 | →  |  |    | 4 | ↓      |  |    |                             |        |  |
| NB - 4 7      |         |   |    |  |    |   |        |  |    |                             |        |  |
| SPLIT PATTERN | RING 1  |   |    |  |    |   | RING 2 |  |    |                             |        |  |
|               | PHASE   |   | 2  |  | 4  |   |        |  |    | N/S - 4 9                   |        |  |
|               | SPLIT   |   |    |  |    |   |        |  |    | Target Cycle Length         |        |  |
|               | COORD   |   |    |  |    |   |        |  |    | XXX                         |        |  |
|               | RECALLS |   |    |  |    |   |        |  |    | Actual Cycle Length         |        |  |
| GREEN         |         |   | -5 |  | -6 |   | -5     |  | -5 | 0                           |        |  |

|   |         |   |   |   |   |   |   |   |                                      |        |
|---|---------|---|---|---|---|---|---|---|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST THRU           | R1      | 2 | → |   | 4 | ↓ |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | → |   | 4 | ↓ |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   | EB - 5 7                             |        |
|   |         |   |   |   |   |   |   |   | WB - 5 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   | E/W - 5 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    | 0      |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST LEFT           | R1      | 2 | → |   | 4 | ↓ |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | → |   | 4 | ↓ |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   | EB - 6 7                             |        |
|   |         |   |   |   |   |   |   |   | WB - 6 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   | E/W - 6 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    | 0      |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EASTBOUND<br>THRU & LEFT | R1      | 2 | → |   | 4 | ↓ |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | → |   | 4 | ↓ |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   | EB - 7 7                             |        |
|   |         |   |   |   |   |   |   |   | WB - 7 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   | E/W - 7 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    | 0      |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>WESTBOUND<br>THRU & LEFT | R1      | 2 | → |   | 4 | ↓ |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | → |   | 4 | ↓ |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   | EB - 8 7                             |        |
|   |         |   |   |   |   |   |   |   | WB - 8 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   | E/W - 8 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    | 0      |

# INDIAN SCHOOL & MARSHALL WAY

System # 225

## BASIC TIMING PLAN

Section #

I.P. Address  
MM1-5-1

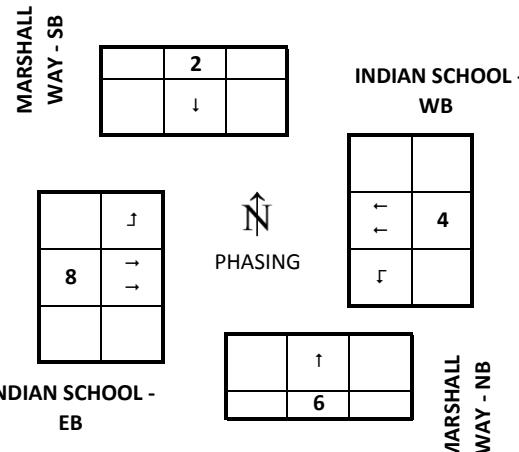
Date Designed

172.27.12.25

12/28/2016

| Phase            | 2   | 4   | 6   | 8   |
|------------------|-----|-----|-----|-----|
| Movement         | SBT | WBT | NBT | EBT |
| NOTES            |     |     |     |     |
| MIN GRN          | 7   | 10  | 7   | 10  |
| BK MGRN          |     |     |     |     |
| CS MGRN          |     |     |     |     |
| DLY GRN          |     |     |     |     |
| WALK             | 7   | 7   | 8   | 7   |
| WALK2            |     |     |     |     |
| WLK MAX          |     |     |     |     |
| PED CLR/FDW      | 17  | 7   | 17  | 8   |
| PD CLR2          |     |     |     |     |
| PC MAX           |     |     |     |     |
| PED CO           |     |     |     |     |
| VEH EXT          | 2   | 2   | 2   | 2   |
| VH EXT2          |     |     |     |     |
| MAX 1            | 35  | 70  | 35  | 70  |
| MAX 2            | 45  | 85  | 45  | 85  |
| MAX 3            |     |     |     |     |
| DYM MAX          |     |     |     |     |
| DYM STP          |     |     |     |     |
| YELLOW           | 3.6 | 4   | 3.6 | 4   |
| RED CLR          | 1.5 | 1.2 | 1.5 | 1.2 |
| RED MAX          |     |     |     |     |
| RED RVT          | 2   | 2   | 2   | 2   |
| ACT B4           |     |     |     |     |
| SEC/ACT          |     |     |     |     |
| MAX INT          |     |     |     |     |
| TIME B4          |     |     |     |     |
| CARS WT          |     |     |     |     |
| STPTDUC          |     |     |     |     |
| TTREDUC          |     |     |     |     |
| MIN GAP          |     |     |     |     |
| RECALLS - MM-2-8 |     |     |     |     |
| LOCK DET         |     |     |     |     |
| VEH RECALL       |     |     |     |     |
| PED RECALL       | X   |     | X   |     |
| MAX RECALL       |     |     |     |     |
| SOFT RECALL      |     |     |     |     |
| NO REST          |     |     |     |     |
| ADD INIT CAL     |     |     |     |     |

NOTES



| PHASING SEQUENCES    |   |  |   |  |
|----------------------|---|--|---|--|
| TOD: MORNING         |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| TOD: MIDDAY          |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| TOD: EVENING         |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| TOD: WEEKEND         |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan:     |   |  |   |  |
| FREE                 |   |  |   |  |
| R1                   | 2 |  | 4 |  |
| R2                   | 6 |  | 8 |  |
| B B                  |   |  |   |  |
| Use Timing plan: 254 |   |  |   |  |

EXPIRES XX/XX/XXXX

|  |         |   |      |   |           |   |              |          |      |
|--|---------|---|------|---|-----------|---|--------------|----------|------|
| INDIAN SCHOOL & MARSHALL WA              |         |   |      |   |           |   |              | System # | 225  |
| COORDINATOR                              |         |   |      |   | Section # |   | Date Updated |          |      |
|  |         |   |      |   | 0         |   | 12/28/2016   |          |      |
|  | PHASE   | 1 | 2    | 3 | 4         | 5 | 6            | 7        | 8    |
|  | FDW     |   | 17   |   | 7         |   | 17           |          | 8    |
|  | YELLOW  |   | 3.6  |   | 4         |   | 3.6          |          | 4    |
|  | ALL RED |   | 1.5  |   | 1.2       |   | 1.5          |          | 1.2  |
|  | WALK    |   | 17   |   | 7         |   | 17           |          | 8    |
| PLAN 1<br>AM PLAN<br>OPERATIVE TIMES     | R1      | 2 | ↓    |   |           | 4 | ←            |          |      |
|  | R2      | 6 | ↑    |   |           | 8 | →            |          |      |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |
|  | SPLIT   |   | 30   |   | 90        |   | 30           |          | 90   |
|  | COORD   |   |      |   | X         |   |              | X        |      |
|  | RECALLS |   |      |   | V         |   |              | V        |      |
|  | GREEN   |   | 24.9 |   | 84.8      |   | 24.9         |          | 84.8 |
|  |         |   |      |   |           |   |              |          | 120  |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE TIMES | R1      | 2 | ↓    |   |           | 4 | ←            |          |      |
|  | R2      | 6 | ↑    |   |           | 8 | →            |          |      |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |
|  | SPLIT   |   | 33   |   | 87        |   | 33           |          | 87   |
|  | COORD   |   |      |   | X         |   |              | X        |      |
|  | RECALLS |   |      |   | V         |   |              | V        |      |
|  | GREEN   |   | ###  |   | ###       |   | ###          |          | ###  |
|  |         |   |      |   |           |   |              |          | 120  |
| PLAN 7<br>PM PLAN<br>OPERATIVE TIMES     | R1      | 2 | ↓    |   |           | 4 | ←            |          |      |
|  | R2      | 6 | ↑    |   |           | 8 | →            |          |      |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |
|  | SPLIT   |   | 25   |   | 95        |   | 25           |          | 95   |
|  | COORD   |   |      |   | X         |   |              | X        |      |
|  | RECALLS |   |      |   | V         |   |              | V        |      |
|  | GREEN   |   | ###  |   | ###       |   | ###          |          | ###  |
|  |         |   |      |   |           |   |              |          | 120  |
| PLAN 10<br>MIDNIGHT PLAN<br>OPERATIVE    | R1      | 2 | ↓    |   |           | 4 | ←            |          |      |
|  | R2      | 6 | ↑    |   |           | 8 | →            |          |      |
|  | RING 1  |   |      |   | RING 2    |   |              |          |      |
|  | PHASE   |   | 2    |   | 4         |   | 6            |          | 8    |
|  | SPLIT   |   | 20   |   | 70        |   | 20           |          | 70   |
| Target Cycle Length                      |         |   |      |   |           |   |              |          |      |

|  |         |        |      |      |        |      |      |                     |
|--|---------|--------|------|------|--------|------|------|---------------------|
| TIMES  | COORD   |        |      | X    |        |      | X    | 90                  |
|  | RECALLS |        |      | V    |        |      | V    | Actual Cycle Length |
|  | GREEN   | ###    | ###  | ###  | ###    | ###  | 90   |                     |
| PLAN 254<br><b>FREE PLAN</b><br>OPERATIVE TIMES  | R1      | 2      | ↓    |      | 4      | ←    |      | COORD PATTERN       |
|  | R2      | 6      | ↑    |      | 8      | →    |      | Balanced            |
|  |         | RING 1 |      |      | RING 2 |      |      |                     |
|  | PHASE   |        | 2    | 4    |        | 6    | 8    |                     |
|  | SPLIT   |        |      |      |        |      |      | Target Cycle Length |
|  | COORD   |        |      |      |        |      |      | XXX                 |
|  | RECALLS |        |      |      |        |      |      | Actual Cycle Length |
|  | GREEN   |        | -5.1 | -5.2 |        | -5.1 | -5.2 | 0                   |
| PLAN 0<br><b>AUTO PLAN</b><br>OPERATIVE TIMES    | R1      |        |      |      |        |      |      | COORD PATTERN       |
|  | R2      |        |      |      |        |      |      | Balanced            |
|  |         | RING 1 |      |      | RING 2 |      |      |                     |
|  | PHASE   |        |      |      |        |      |      |                     |
|  | SPLIT   |        |      |      |        |      |      | Target Cycle Length |
|  | COORD   |        |      |      |        |      |      | XXX                 |
|  | RECALLS |        |      |      |        |      |      | Actual Cycle Length |
|  | GREEN   |        | -5.1 | -5.2 |        | -5.1 | -5.2 | 0                   |
| PLAN 5<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |      |        |      |      | COORD PATTERN       |
|  | R2      |        |      |      |        |      |      | Balanced            |
|  |         | RING 1 |      |      | RING 2 |      |      |                     |
|  | PHASE   |        |      |      |        |      |      |                     |
|  | SPLIT   |        |      |      |        |      |      | Target Cycle Length |
|  | COORD   |        |      |      |        |      |      | XXX                 |
|  | RECALLS |        |      |      |        |      |      | Actual Cycle Length |
|  | GREEN   |        | -5.1 | -5.2 |        | -5.1 | -5.2 | 0                   |
| PLAN 6<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |      |        |      |      | COORD PATTERN       |
|  | R2      |        |      |      |        |      |      | Balanced            |
|  |         | RING 1 |      |      | RING 2 |      |      |                     |
|  | PHASE   |        |      |      |        |      |      |                     |
|  | SPLIT   |        |      |      |        |      |      | Target Cycle Length |
|  | COORD   |        |      |      |        |      |      | XXX                 |
|  | RECALLS |        |      |      |        |      |      | Actual Cycle Length |
|  | GREEN   |        | -5.1 | -5.2 |        | -5.1 | -5.2 | 0                   |

EMERGENCY PLANS

|  |         |   |   |    |  |    |   |    |  |                                      |        |
|--|---------|---|---|----|--|----|---|----|--|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>THRU | R1      | 2 | ↓ |    |  | 4  | ← |    |  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓ |    |  | 4  | ← |    |  |                                      |        |
|  |         |   |   |    |  |    |   |    |  | NB - 1 7                             |        |
|  |         |   |   |    |  |    |   |    |  | SB - 1 8                             |        |
|  | PHASE   |   |   | 2  |  | 4  |   |    |  | N/S - 1 9                            |        |
|  | SPLIT   |   |   |    |  |    |   |    |  | Target Cycle Length                  |        |
|  | COORD   |   |   |    |  |    |   |    |  | XXX                                  |        |
|  | RECALLS |   |   |    |  |    |   |    |  | Actual Cycle Length                  |        |
|  | GREEN   |   |   | -5 |  | -5 |   | -5 |  | -5                                   | 0      |

|  |         |   |   |    |  |    |   |    |  |                                      |        |
|--|---------|---|---|----|--|----|---|----|--|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>LEFT | R1      | 2 | ↓ |    |  | 4  | ← |    |  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓ |    |  | 4  | ← |    |  |                                      |        |
|  |         |   |   |    |  |    |   |    |  | NB - 2 7                             |        |
|  |         |   |   |    |  |    |   |    |  | SB - 2 8                             |        |
|  | PHASE   |   |   | 2  |  | 4  |   |    |  | N/S - 2 9                            |        |
|  | SPLIT   |   |   |    |  |    |   |    |  | Target Cycle Length                  |        |
|  | COORD   |   |   |    |  |    |   |    |  | XXX                                  |        |
|  | RECALLS |   |   |    |  |    |   |    |  | Actual Cycle Length                  |        |
|  | GREEN   |   |   | -5 |  | -5 |   | -5 |  | -5                                   | 0      |

|  |         |   |   |    |  |    |   |    |  |                                      |        |
|--|---------|---|---|----|--|----|---|----|--|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTHBOUND<br>THRU & LEFT | R1      | 2 | ↓ |    |  | 4  | ← |    |  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓ |    |  | 4  | ← |    |  |                                      |        |
|  |         |   |   |    |  |    |   |    |  | NB - 3 7                             |        |
|  |         |   |   |    |  |    |   |    |  | SB - 3 8                             |        |
|  | PHASE   |   |   | 2  |  | 4  |   |    |  | N/S - 3 9                            |        |
|  | SPLIT   |   |   |    |  |    |   |    |  | Target Cycle Length                  |        |
|  | COORD   |   |   |    |  |    |   |    |  | XXX                                  |        |
|  | RECALLS |   |   |    |  |    |   |    |  | Actual Cycle Length                  |        |
|  | GREEN   |   |   | -5 |  | -5 |   | -5 |  | -5                                   | 0      |

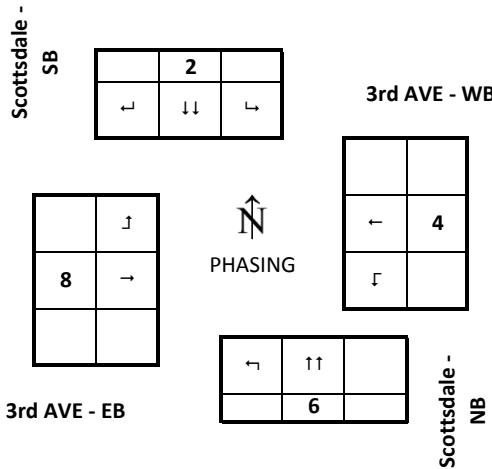
|  |         |   |   |    |  |    |   |    |  |                                      |        |
|--|---------|---|---|----|--|----|---|----|--|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>SOUTHBOUND<br>THRU & LEFT | R1      | 2 | ↓ |    |  | 4  | ← |    |  | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓ |    |  | 4  | ← |    |  |                                      |        |
|  |         |   |   |    |  |    |   |    |  | NB - 4 7                             |        |
|  |         |   |   |    |  |    |   |    |  | SB - 4 8                             |        |
|  | PHASE   |   |   | 2  |  | 4  |   |    |  | N/S - 4 9                            |        |
|  | SPLIT   |   |   |    |  |    |   |    |  | Target Cycle Length                  |        |
|  | COORD   |   |   |    |  |    |   |    |  | XXX                                  |        |
|  | RECALLS |   |   |    |  |    |   |    |  | Actual Cycle Length                  |        |
|  | GREEN   |   |   | -5 |  | -5 |   | -5 |  | -5                                   | 0      |

|   |         |   |   |   |   |   |   |   |   |                                      |        |
|---|---------|---|---|---|---|---|---|---|---|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST THRU           | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 5 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 5 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 5 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST LEFT           | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 6 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 6 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 6 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EASTBOUND<br>THRU & LEFT | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 7 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 7 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 7 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>WESTBOUND<br>THRU & LEFT | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 8 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 8 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 8 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |

|                      |  |  |           |                         |  |               |
|----------------------|--|--|-----------|-------------------------|--|---------------|
| Scottsdale & 3rd AVE |  |  |           |                         |  | System # 76   |
| BASIC TIMING PLAN    |  |  | Section # | I.P. Address<br>MM1-5-1 |  | Date Designed |
|                      |  |  |           |                         |  | 1/0/1900      |

| Phase            | 2            | 4   | 6   | 8   |  |
|------------------|--------------|-----|-----|-----|--|
| Movement         | SBT          | WBT | NBT | EBT |  |
| NOTES            |              |     |     |     |  |
| MIN GRN          | 10           | 10  | 10  | 10  |  |
| BK MGRN          |              |     |     |     |  |
| CS MGRN          |              |     |     |     |  |
| DLY GRN          |              |     |     |     |  |
| WALK             | 7            | 7   | 7   | 7   |  |
| WALK2            |              |     |     |     |  |
| WLK MAX          |              |     |     |     |  |
| PED CLR/FDW      | 10           | 19  | 10  | 19  |  |
| PD CLR2          |              |     |     |     |  |
| PC MAX           |              |     |     |     |  |
| PED CO           |              |     |     |     |  |
| VEH EXT          | 1            | 2   | 1   | 2   |  |
| VH EXT2          |              |     |     |     |  |
| MAX 1            | 85           | 30  | 85  | 30  |  |
| MAX 2            | 105          | 50  | 105 | 50  |  |
| MAX 3            |              |     |     |     |  |
| DYM MAX          |              |     |     |     |  |
| DYM STP          |              |     |     |     |  |
| YELLOW           | 3.8          | 3   | 3.8 | 3   |  |
| RED CLR          | 2.2          | 3.0 | 2.2 | 3.0 |  |
| RED MAX          |              |     |     |     |  |
| RED RVT          | 2            | 2   | 2   | 2   |  |
| ACT B4           |              |     |     |     |  |
| SEC/ACT          |              |     |     |     |  |
| MAX INT          |              |     |     |     |  |
| TIME B4          |              |     |     |     |  |
| CARS WT          |              |     |     |     |  |
| STPTDUC          |              |     |     |     |  |
| TTREDUC          |              |     |     |     |  |
| MIN GAP          |              |     |     |     |  |
| RECALLS - MM-2-8 | LOCK DET     |     |     |     |  |
|                  | VEH RECALL   |     |     |     |  |
|                  | PED RECALL   | X   |     | X   |  |
|                  | MAX RECALL   |     |     |     |  |
|                  | SOFT RECALL  |     |     |     |  |
|                  | NO REST      |     |     |     |  |
|                  | ADD INIT CAL |     |     |     |  |

|       |
|-------|
| NOTES |
|-------|



| PHASING SEQUENCES    |   |  |   |  |  |
|----------------------|---|--|---|--|--|
| TOD: MORNING         |   |  |   |  |  |
| R1                   | 2 |  | 4 |  |  |
| R2                   | 6 |  | 8 |  |  |
| B B                  |   |  |   |  |  |
| Use Timing plan:     |   |  |   |  |  |
| TOD: MIDDAY          |   |  |   |  |  |
| R1                   | 2 |  | 4 |  |  |
| R2                   | 6 |  | 8 |  |  |
| B B                  |   |  |   |  |  |
| Use Timing plan:     |   |  |   |  |  |
| TOD: EVENING         |   |  |   |  |  |
| R1                   | 2 |  | 4 |  |  |
| R2                   | 6 |  | 8 |  |  |
| B B                  |   |  |   |  |  |
| Use Timing plan:     |   |  |   |  |  |
| TOD: WEEKEND         |   |  |   |  |  |
| R1                   | 2 |  | 4 |  |  |
| R2                   | 6 |  | 8 |  |  |
| B B                  |   |  |   |  |  |
| Use Timing plan:     |   |  |   |  |  |
| FREE                 |   |  |   |  |  |
| R1                   | 2 |  | 4 |  |  |
| R2                   | 6 |  | 8 |  |  |
| B B                  |   |  |   |  |  |
| Use Timing plan: 254 |   |  |   |  |  |

EXPIRES XX/XX/XXXX

| Scottsdale & 3rd AVE                     |         |   |      |   |        |   |      | System #  | 76           |
|--|---------|---|------|---|--------|---|------|-----------|--------------|
| COORDINATOR                              |         |   |      |   |        |   |      | Section # | Date Updated |
|  |         |   |      |   |        |   |      | 0         |              |
|  | PHASE   | 1 | 2    | 3 | 4      | 5 | 6    | 7         | 8            |
|  | FDW     |   | 10   |   | 19     |   | 10   |           | 19           |
|  | YELLOW  |   | 3.8  |   | 3      |   | 3.8  |           | 3            |
|  | ALL RED |   | 2.2  |   | 3      |   | 2.2  |           | 3            |
|  | WALK    |   | 10   |   | 19     |   | 10   |           | 19           |
| PLAN 1<br>AM PLAN<br>OPERATIVE TIMES     | R1      | 2 | ↓    |   |        | 4 | ←    |           |              |
|  | R2      | 6 | ↑    |   |        | 8 | →    |           |              |
|  | RING 1  |   |      |   | RING 2 |   |      |           |              |
|  | PHASE   |   | 2    |   | 4      |   | 6    |           | 8            |
|  | SPLIT   |   | 28   |   | 32     |   | 28   |           | 32           |
|  | COORD   |   | X    |   |        |   | X    |           |              |
|  | RECALLS |   | P    |   |        |   | P    |           |              |
|  | GREEN   |   | 22.0 |   | 26.0   |   | 22.0 |           | 26.0         |
| PLAN 4<br>MIDDAY PLAN<br>OPERATIVE TIMES | R1      | 2 | ↓    |   |        | 4 | ←    |           |              |
|  | R2      | 6 | ↑    |   |        | 8 | →    |           |              |
|  | RING 1  |   |      |   | RING 2 |   |      |           |              |
|  | PHASE   |   | 2    |   | 4      |   | 6    |           | 8            |
|  | SPLIT   |   | 76   |   | 44     |   | 76   |           | 44           |
|  | COORD   |   | X    |   |        |   | X    |           |              |
|  | RECALLS |   | P    |   |        |   | P    |           |              |
|  | GREEN   |   | ###  |   | ###    |   | ###  |           | ###          |
| PLAN 7<br>PM PLAN<br>OPERATIVE TIMES     | R1      | 2 | ↓    |   |        | 4 | ←    |           |              |
|  | R2      | 6 | ↑    |   |        | 8 | →    |           |              |
|  | RING 1  |   |      |   | RING 2 |   |      |           |              |
|  | PHASE   |   | 2    |   | 4      |   | 6    |           | 8            |
|  | SPLIT   |   | 28   |   | 32     |   | 28   |           | 32           |
|  | COORD   |   | X    |   |        |   | X    |           |              |
|  | RECALLS |   | P    |   |        |   | P    |           |              |
|  | GREEN   |   | ###  |   | ###    |   | ###  |           | ###          |
| PLAN 1<br>MIDNIGHT PLAN<br>OPERATIVE     | R1      | 2 | ↓    |   |        | 4 | ←    |           |              |
|  | R2      | 6 | ↑    |   |        | 8 | →    |           |              |
|  | RING 1  |   |      |   | RING 2 |   |      |           |              |
|  | PHASE   |   | 2    |   | 4      |   | 6    |           | 8            |
|  | SPLIT   |   | 28   |   | 32     |   | 28   |           | 32           |

|  |         |        |      |  |        |     |      |  |                     |
|--|---------|--------|------|--|--------|-----|------|--|---------------------|
| TIMES  | COORD   |        | X    |  |        | X   |      |  | 60                  |
|  | RECALLS |        | P    |  |        | P   |      |  | Actual Cycle Length |
|  | GREEN   |        | ###  |  | ###    | ### | ###  |  | 60                  |
| PLAN 254<br><b>FREE PLAN</b><br>OPERATIVE TIMES  | R1      | 2      | ↓    |  |        | 4   | ←    |  | COORD PATTERN       |
|  | R2      | 6      | ↑    |  |        | 8   | →    |  | Balanced            |
|  |         | RING 1 |      |  | RING 2 |     |      |  |                     |
|  | PHASE   |        | 2    |  | 4      |     | 6    |  | 8                   |
|  | SPLIT   |        |      |  |        |     |      |  | Target Cycle Length |
|  | COORD   |        |      |  |        |     |      |  | XXX                 |
|  | RECALLS |        |      |  |        |     |      |  | Actual Cycle Length |
|  | GREEN   |        | -6.0 |  | -6.0   |     | -6.0 |  | -6.0                |
| PLAN 0<br><b>AUTO PLAN</b><br>OPERATIVE TIMES    | R1      |        |      |  |        |     |      |  | COORD PATTERN       |
|  | R2      |        |      |  |        |     |      |  | Balanced            |
|  |         | RING 1 |      |  | RING 2 |     |      |  |                     |
|  | PHASE   |        |      |  |        |     |      |  |                     |
|  | SPLIT   |        |      |  |        |     |      |  | Target Cycle Length |
|  | COORD   |        |      |  |        |     |      |  | XXX                 |
|  | RECALLS |        |      |  |        |     |      |  | Actual Cycle Length |
|  | GREEN   |        | -6.0 |  | -6.0   |     | -6.0 |  | -6.0                |
| PLAN 5<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |  |        |     |      |  | COORD PATTERN       |
|  | R2      |        |      |  |        |     |      |  | Balanced            |
|  |         | RING 1 |      |  | RING 2 |     |      |  |                     |
|  | PHASE   |        |      |  |        |     |      |  |                     |
|  | SPLIT   |        |      |  |        |     |      |  | Target Cycle Length |
|  | COORD   |        |      |  |        |     |      |  | XXX                 |
|  | RECALLS |        |      |  |        |     |      |  | Actual Cycle Length |
|  | GREEN   |        | -6.0 |  | -6.0   |     | -6.0 |  | -6.0                |
| PLAN 6<br><b>SPECIAL PLAN</b><br>OPERATIVE TIMES | R1      |        |      |  |        |     |      |  | COORD PATTERN       |
|  | R2      |        |      |  |        |     |      |  | Balanced            |
|  |         | RING 1 |      |  | RING 2 |     |      |  |                     |
|  | PHASE   |        |      |  |        |     |      |  |                     |
|  | SPLIT   |        |      |  |        |     |      |  | Target Cycle Length |
|  | COORD   |        |      |  |        |     |      |  | XXX                 |
|  | RECALLS |        |      |  |        |     |      |  | Actual Cycle Length |
|  | GREEN   |        | -6.0 |  | -6.0   |     | -6.0 |  | -6.0                |

EMERGENCY PLANS

|  |         |   |    |  |    |   |    |  |    |                                      |        |
|--|---------|---|----|--|----|---|----|--|----|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>THRU       | R1      | 2 | ↓  |  |    | 4 | ←  |  |    | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓  |  |    | 4 | ←  |  |    |                                      |        |
|  |         |   |    |  |    |   |    |  |    | NB - 1 7                             |        |
|  |         |   |    |  |    |   |    |  |    | SB - 1 8                             |        |
|  | PHASE   |   | 2  |  | 4  |   |    |  |    | N/S - 1 9                            |        |
|  | SPLIT   |   |    |  |    |   |    |  |    | Target Cycle Length                  |        |
|  | COORD   |   |    |  |    |   |    |  |    | XXX                                  |        |
|  | RECALLS |   |    |  |    |   |    |  |    | Actual Cycle Length                  |        |
|  | GREEN   |   | -6 |  | -6 |   | -6 |  | -6 | 0                                    |        |
|  |         |   |    |  |    |   |    |  |    |                                      |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTH SOUTH<br>LEFT       | R1      | 2 | ↓  |  |    | 4 | ←  |  |    | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓  |  |    | 4 | ←  |  |    |                                      |        |
|  |         |   |    |  |    |   |    |  |    | NB - 2 7                             |        |
|  |         |   |    |  |    |   |    |  |    | SB - 2 8                             |        |
|  | PHASE   |   | 2  |  | 4  |   |    |  |    | N/S - 2 9                            |        |
|  | SPLIT   |   |    |  |    |   |    |  |    | Target Cycle Length                  |        |
|  | COORD   |   |    |  |    |   |    |  |    | XXX                                  |        |
|  | RECALLS |   |    |  |    |   |    |  |    | Actual Cycle Length                  |        |
|  | GREEN   |   | -6 |  | -6 |   | -6 |  | -6 | 0                                    |        |
|  |         |   |    |  |    |   |    |  |    |                                      |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>NORTHBOUND<br>THRU & LEFT | R1      | 2 | ↓  |  |    | 4 | ←  |  |    | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓  |  |    | 4 | ←  |  |    |                                      |        |
|  |         |   |    |  |    |   |    |  |    | NB - 3 7                             |        |
|  |         |   |    |  |    |   |    |  |    | SB - 3 8                             |        |
|  | PHASE   |   | 2  |  | 4  |   |    |  |    | N/S - 3 9                            |        |
|  | SPLIT   |   |    |  |    |   |    |  |    | Target Cycle Length                  |        |
|  | COORD   |   |    |  |    |   |    |  |    | XXX                                  |        |
|  | RECALLS |   |    |  |    |   |    |  |    | Actual Cycle Length                  |        |
|  | GREEN   |   | -6 |  | -6 |   | -6 |  | -6 | 0                                    |        |
|  |         |   |    |  |    |   |    |  |    |                                      |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>SOUTHBOUND<br>THRU & LEFT | R1      | 2 | ↓  |  |    | 4 | ←  |  |    | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|  | R2      | 2 | ↓  |  |    | 4 | ←  |  |    |                                      |        |
|  |         |   |    |  |    |   |    |  |    | NB - 4 7                             |        |
|  |         |   |    |  |    |   |    |  |    | SB - 4 8                             |        |
|  | PHASE   |   | 2  |  | 4  |   |    |  |    | N/S - 4 9                            |        |
|  | SPLIT   |   |    |  |    |   |    |  |    | Target Cycle Length                  |        |
|  | COORD   |   |    |  |    |   |    |  |    | XXX                                  |        |
|  | RECALLS |   |    |  |    |   |    |  |    | Actual Cycle Length                  |        |
|  | GREEN   |   | -6 |  | -6 |   | -6 |  | -6 | 0                                    |        |
|  |         |   |    |  |    |   |    |  |    |                                      |        |

|   |         |   |   |   |   |   |   |   |   |                                      |        |
|---|---------|---|---|---|---|---|---|---|---|--------------------------------------|--------|
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST THRU           | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 5 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 5 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 5 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EAST WEST LEFT           | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 6 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 6 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 6 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>EASTBOUND<br>THRU & LEFT | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 7 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 7 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 7 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |
| EXTREME PLAN<br>-<br>SPLIT PATTERN<br>-<br>WESTBOUND<br>THRU & LEFT | R1      | 2 | ↓ |   |   | 4 | ← |   |   | COORD<br>PATTERN -<br>PLAN<br>NUMBER | OFFSET |
|   | R2      | 2 | ↓ |   |   | 4 | ← |   |   |                                      |        |
|   |         |   |   |   |   |   |   |   |   | EB - 8 7                             |        |
|   |         |   |   |   |   |   |   |   |   | WB - 8 8                             |        |
|   | PHASE   |   |   |   |   |   |   |   |   | E/W - 8 9                            |        |
|   | SPLIT   |   |   |   |   |   |   |   |   | Target Cycle Length                  |        |
|   | COORD   |   |   |   |   |   |   |   |   | XXX                                  |        |
|   | RECALLS |   |   |   |   |   |   |   |   | Actual Cycle Length                  |        |
|   | GREEN   | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0                                    |        |



## Appendix F – Existing Capacity Analysis

F

**Intersection**

Int Delay, s/veh 0.4

| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | W    |      | ↑↑   |      | ↑    | ↑↑↑  |
| Traffic Vol, veh/h       | 4    | 14   | 518  | 21   | 28   | 541  |
| Future Vol, veh/h        | 4    | 14   | 518  | 21   | 28   | 541  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | 100  | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | 0    | -    | 0    | -    | -    | 0    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 4    | 15   | 563  | 23   | 30   | 588  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |       |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 870    | 293    | 0      | 0 | 586   |
| Stage 1              | 575    | -      | -      | - | -     |
| Stage 2              | 295    | -      | -      | - | -     |
| Critical Hdwy        | 6.29   | 6.94   | -      | - | 4.14  |
| Critical Hdwy Stg 1  | 5.84   | -      | -      | - | -     |
| Critical Hdwy Stg 2  | 6.04   | -      | -      | - | -     |
| Follow-up Hdwy       | 3.67   | 3.32   | -      | - | 2.22  |
| Pot Cap-1 Maneuver   | *789   | *871   | -      | - | *1304 |
| Stage 1              | *789   | -      | -      | - | -     |
| Stage 2              | *692   | -      | -      | - | -     |
| Platoon blocked, %   | 1      | 1      | -      | - | 1     |
| Mov Cap-1 Maneuver   | *770   | *871   | -      | - | *1304 |
| Mov Cap-2 Maneuver   | *725   | -      | -      | - | -     |
| Stage 1              | *789   | -      | -      | - | -     |
| Stage 2              | *676   | -      | -      | - | -     |

| Approach             | WB  | NB | SB  |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.4 | 0  | 0.4 |
| HCM LOS              | A   |    |     |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL    | SBT |
|-----------------------|-----|-----|-------|--------|-----|
| Capacity (veh/h)      | -   | -   | 834   | * 1304 | -   |
| HCM Lane V/C Ratio    | -   | -   | 0.023 | 0.023  | -   |
| HCM Control Delay (s) | -   | -   | 9.4   | 7.8    | -   |
| HCM Lane LOS          | -   | -   | A     | A      | -   |
| HCM 95th %tile Q(veh) | -   | -   | 0.1   | 0.1    | -   |

**Notes**

~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

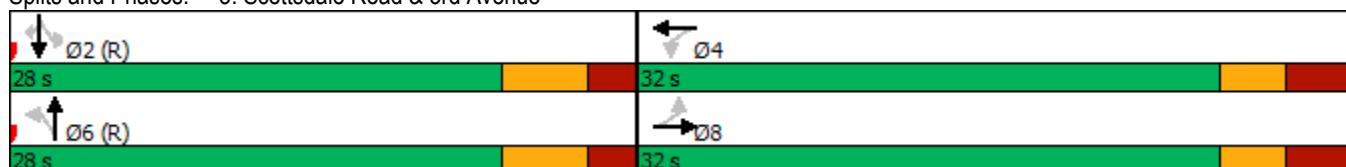
| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 2      |        |        |      |       |       |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL   | SBR   |
| Lane Configurations      |        |        |        |      |       |       |
| Traffic Vol, veh/h       | 10     | 47     | 28     | 10   | 14    | 2     |
| Future Vol, veh/h        | 10     | 47     | 28     | 10   | 14    | 2     |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | -      | -      | -    | 0     | -     |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0     | -     |
| Grade, %                 | -      | 0      | 0      | -    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 11     | 51     | 30     | 11   | 15    | 2     |
| Major/Minor              | Major1 | Major2 | Minor2 |      |       |       |
| Conflicting Flow All     | 41     | 0      | -      | 0    | 109   | 36    |
| Stage 1                  | -      | -      | -      | -    | 36    | -     |
| Stage 2                  | -      | -      | -      | -    | 73    | -     |
| Critical Hdwy            | 4.12   | -      | -      | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | 2.218  | -      | -      | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | 1568   | -      | -      | -    | 888   | 1037  |
| Stage 1                  | -      | -      | -      | -    | 986   | -     |
| Stage 2                  | -      | -      | -      | -    | 950   | -     |
| Platoon blocked, %       | -      | -      | -      | -    | -     | -     |
| Mov Cap-1 Maneuver       | 1568   | -      | -      | -    | 882   | 1037  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 882   | -     |
| Stage 1                  | -      | -      | -      | -    | 979   | -     |
| Stage 2                  | -      | -      | -      | -    | 950   | -     |
| Approach                 | EB     | WB     | SB     |      |       |       |
| HCM Control Delay, s     | 1.3    | 0      | 9.1    |      |       |       |
| HCM LOS                  |        |        | A      |      |       |       |
| Minor Lane/Major Mvmt    | EBL    | EBT    | WBT    | WBR  | SBLn1 |       |
| Capacity (veh/h)         | 1568   | -      | -      | -    | 899   |       |
| HCM Lane V/C Ratio       | 0.007  | -      | -      | -    | 0.019 |       |
| HCM Control Delay (s)    | 7.3    | 0      | -      | -    | 9.1   |       |
| HCM Lane LOS             | A      | A      | -      | -    | A     |       |
| HCM 95th %tile Q(veh)    | 0      | -      | -      | -    | 0.1   |       |

| Movement                              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations                   | ↑    | ↑    |      | ↑    | ↑    |      | ↑    | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)                | 3    | 15   | 9    | 20   | 4    | 48   | 56   | 432  | 25   | 58   | 369  | 17   |
| Future Volume (veh/h)                 | 3    | 15   | 9    | 20   | 4    | 48   | 56   | 432  | 25   | 58   | 369  | 17   |
| Initial Q (Q <sub>b</sub> ), veh      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                   | 1.00 |      |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj                      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                 | No   |      |      | No   |      |      | No   |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln                | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h                  | 3    | 16   | 10   | 22   | 4    | 52   | 61   | 470  | 27   | 63   | 401  | 18   |
| Peak Hour Factor                      | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %                  | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h                            | 265  | 149  | 93   | 294  | 16   | 206  | 718  | 2259 | 129  | 716  | 2350 | 1048 |
| Arrive On Green                       | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 1.00 | 1.00 | 1.00 | 0.66 | 0.66 | 0.66 |
| Sat Flow, veh/h                       | 1348 | 1076 | 673  | 1385 | 114  | 1488 | 968  | 3416 | 196  | 901  | 3554 | 1585 |
| Grp Volume(v), veh/h                  | 3    | 0    | 26   | 22   | 0    | 56   | 61   | 244  | 253  | 63   | 401  | 18   |
| Grp Sat Flow(s), veh/h/ln             | 1348 | 0    | 1749 | 1385 | 0    | 1603 | 968  | 1777 | 1835 | 901  | 1777 | 1585 |
| Q Serve(g_s), s                       | 0.1  | 0.0  | 0.8  | 0.8  | 0.0  | 1.9  | 0.3  | 0.0  | 0.0  | 1.5  | 2.6  | 0.2  |
| Cycle Q Clear(g_c), s                 | 2.0  | 0.0  | 0.8  | 1.6  | 0.0  | 1.9  | 2.9  | 0.0  | 0.0  | 1.5  | 2.6  | 0.2  |
| Prop In Lane                          | 1.00 |      |      | 1.00 |      |      | 0.93 | 1.00 |      | 0.11 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h                | 265  | 0    | 243  | 294  | 0    | 222  | 718  | 1175 | 1214 | 716  | 2350 | 1048 |
| V/C Ratio(X)                          | 0.01 | 0.00 | 0.11 | 0.07 | 0.00 | 0.25 | 0.08 | 0.21 | 0.21 | 0.09 | 0.17 | 0.02 |
| Avail Cap(c_a), veh/h                 | 662  | 0    | 758  | 702  | 0    | 694  | 718  | 1175 | 1214 | 716  | 2350 | 1048 |
| HCM Platoon Ratio                     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                    | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.95 | 0.95 | 0.95 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh              | 24.0 | 0.0  | 22.6 | 23.3 | 0.0  | 23.1 | 0.1  | 0.0  | 0.0  | 3.7  | 3.9  | 3.5  |
| Incr Delay (d2), s/veh                | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.2  | 0.2  | 0.4  | 0.4  | 0.2  | 0.2  | 0.0  |
| Initial Q Delay(d3), s/veh            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln             | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.7  | 0.0  | 0.1  | 0.1  | 0.2  | 0.7  | 0.1  |
| Unsig. Movement Delay, s/veh          |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                 | 24.0 | 0.0  | 22.7 | 23.3 | 0.0  | 23.3 | 0.3  | 0.4  | 0.4  | 3.9  | 4.0  | 3.5  |
| LnGrp LOS                             | C    | A    | C    | C    | A    | C    | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                   |      |      |      |      |      | 78   |      |      | 558  |      |      | 482  |
| Approach Delay, s/veh                 | 22.8 |      |      |      | 23.3 |      |      | 0.4  |      |      | 4.0  |      |
| Approach LOS                          | C    |      |      |      | C    |      |      | A    |      |      | A    |      |
| Timer - Assigned Phs                  | 2    |      | 4    |      | 6    |      | 8    |      |      |      |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s | 45.7 |      | 14.3 |      | 45.7 |      | 14.3 |      |      |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s  | 6.0  |      | 6.0  |      | 6.0  |      | 6.0  |      |      |      |      |      |
| Max Green Setting (Gmax), s           | 22.0 |      | 26.0 |      | 22.0 |      | 26.0 |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s          | 4.6  |      | 3.9  |      | 4.9  |      | 4.0  |      |      |      |      |      |
| Green Ext Time (p_c), s               | 1.1  |      | 0.2  |      | 1.1  |      | 0.1  |      |      |      |      |      |
| <b>Intersection Summary</b>           |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                    |      |      | 4.0  |      |      |      |      |      |      |      |      |      |
| HCM 6th LOS                           |      |      | A    |      |      |      |      |      |      |      |      |      |

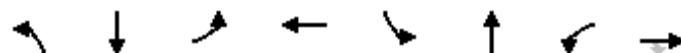


| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | SBTL                 | WBTL  | NBTL  | EBTL  |
| Lead/Lag  |                      |       |       |       |
| Lead-Lag Optimize   |                      |       |       |       |
| Recall Mode   | C-Max                | None  | C-Max | None  |
| Maximum Split (s)   | 28                   | 32    | 28    | 32    |
| Maximum Split (%)   | 46.7%                | 53.3% | 46.7% | 53.3% |
| Minimum Split (s)   | 23                   | 32    | 23    | 32    |
| Yellow Time (s)   | 3.8                  | 3     | 3.8   | 3     |
| All-Red Time (s)  | 2.2                  | 3     | 2.2   | 3     |
| Minimum Initial (s)   | 10                   | 10    | 10    | 10    |
| Vehicle Extension (s)   | 1                    | 2     | 1     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)  | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 7     | 7     |
| Flash Dont Walk (s)   | 10                   | 19    | 10    | 19    |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 35                   | 3     | 35    | 3     |
| End Time (s)  | 3                    | 35    | 3     | 35    |
| Yield/Force Off (s)   | 57                   | 29    | 57    | 29    |
| Yield/Force Off 170(s)  | 47                   | 10    | 47    | 10    |
| Local Start Time (s)  | 0                    | 28    | 0     | 28    |
| Local Yield (s)   | 22                   | 54    | 22    | 54    |
| Local Yield 170(s)  | 12                   | 35    | 12    | 35    |
| Intersection Summary  |                      |       |       |       |
| Cycle Length  | 60                   |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 55                   |       |       |       |
| Offset: 35 (58%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green |                      |       |       |       |

Splits and Phases: 5: Scottsdale Road & 3rd Avenue



| Movement   | EBL   | EBT  | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|-------|-------|------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑↑    | ↑↑   | ↑    | ↑↑    | ↑↑    | 34   | 67    | 350   | 13   | 35   | 423  | 78   |
| Traffic Volume (veh/h)   | 173   | 624  | 71   | 56    | 554   | 34   | 67    | 350   | 13   | 35   | 423  | 78   |
| Future Volume (veh/h)  | 173   | 624  | 71   | 56    | 554   | 34   | 67    | 350   | 13   | 35   | 423  | 78   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00  |       | 1.00 | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      |      | No    |       |      | No    |       |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870  | 1870  | 1870 | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 188   | 678  | 77   | 61    | 602   | 37   | 73    | 380   | 14   | 38   | 460  | 85   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2     | 2     | 2    | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 350   | 1439 | 642  | 125   | 1148  | 70   | 206   | 1005  | 37   | 161  | 1134 | 205  |
| Arrive On Green  | 0.10  | 0.41 | 0.41 | 0.02  | 0.23  | 0.23 | 0.12  | 0.29  | 0.29 | 0.09 | 0.26 | 0.26 |
| Sat Flow, veh/h  | 3456  | 3554 | 1585 | 3456  | 3401  | 209  | 1781  | 3496  | 128  | 1781 | 4348 | 785  |
| Grp Volume(v), veh/h   | 188   | 678  | 77   | 61    | 314   | 325  | 73    | 193   | 201  | 38   | 358  | 187  |
| Grp Sat Flow(s), veh/h/ln  | 1728  | 1777 | 1585 | 1728  | 1777  | 1833 | 1781  | 1777  | 1847 | 1781 | 1702 | 1729 |
| Q Serve(g_s), s  | 6.2   | 16.8 | 2.4  | 2.1   | 18.6  | 18.7 | 4.5   | 10.4  | 10.5 | 2.4  | 10.4 | 10.8 |
| Cycle Q Clear(g_c), s  | 6.2   | 16.8 | 2.4  | 2.1   | 18.6  | 18.7 | 4.5   | 10.4  | 10.5 | 2.4  | 10.4 | 10.8 |
| Prop In Lane   | 1.00  |      | 1.00 | 1.00  |       | 0.11 | 1.00  |       | 0.07 | 1.00 |      | 0.45 |
| Lane Grp Cap(c), veh/h   | 350   | 1439 | 642  | 125   | 600   | 619  | 206   | 511   | 531  | 161  | 888  | 451  |
| V/C Ratio(X)   | 0.54  | 0.47 | 0.12 | 0.49  | 0.52  | 0.53 | 0.35  | 0.38  | 0.38 | 0.24 | 0.40 | 0.42 |
| Avail Cap(c_a), veh/h  | 481   | 1439 | 642  | 253   | 600   | 619  | 206   | 511   | 531  | 161  | 888  | 451  |
| HCM Platoon Ratio  | 1.00  | 1.00 | 1.00 | 0.67  | 0.67  | 0.67 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 1.00  | 1.00 | 1.00 | 0.97  | 0.97  | 0.97 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 51.3  | 26.2 | 9.5  | 57.4  | 38.0  | 38.0 | 49.0  | 34.2  | 34.2 | 50.7 | 36.6 | 36.8 |
| Incr Delay (d2), s/veh   | 0.5   | 1.1  | 0.4  | 1.1   | 3.2   | 3.1  | 0.4   | 2.1   | 2.1  | 0.3  | 1.4  | 2.8  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.7   | 7.2  | 1.4  | 0.9   | 9.0   | 9.3  | 2.0   | 4.8   | 5.0  | 1.1  | 4.5  | 4.9  |
| Unsig. Movement Delay, s/veh   |       |      |      |       |       |      |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 51.7  | 27.4 | 9.9  | 58.5  | 41.1  | 41.1 | 49.3  | 36.3  | 36.2 | 51.0 | 38.0 | 39.6 |
| LnGrp LOS  | D     | C    | A    | E     | D     | D    | D     | D     | D    | D    | D    | D    |
| Approach Vol, veh/h  | 943   |      |      |       | 700   |      |       | 467   |      |      | 583  |      |
| Approach Delay, s/veh  | 30.8  |      |      |       | 42.6  |      |       | 38.3  |      |      | 39.3 |      |
| Approach LOS   | C     |      |      |       | D     |      |       | D     |      |      | D    |      |
| Timer - Assigned Phs   | 1     | 2    | 3    | 4     | 5     | 6    | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 19.5  | 37.0 | 17.5 | 46.0  | 16.5  | 40.0 | 9.5   | 54.0  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.6 | 5.7  | 5.4  | * 5.5 | * 5.6 | 5.5  | * 5.2 | * 5.4 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 9.4 | 31.3 | 16.7 | * 41  | * 6.4 | 34.5 | * 8.8 | * 49  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 6.5   | 12.8 | 8.2  | 20.7  | 4.4   | 12.5 | 4.1   | 18.8  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 1.2  | 0.2  | 1.2   | 0.0   | 0.7  | 0.0   | 1.7   |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |       |       |      |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      |      | 37.0  |       |      |       |       |      |      |      |      |
| HCM 6th LOS  |       |      |      | D     |       |      |       |       |      |      |      |      |
| <b>Notes</b>   |       |      |      |       |       |      |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |       |       |      |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBT   | SBL   | NBT   | WBL   | EBT   |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lead  | Lag   |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 15    | 37    | 22    | 46    | 12    | 40    | 14    | 54    |
| Maximum Split (%)      | 12.5% | 30.8% | 18.3% | 38.3% | 10.0% | 33.3% | 11.7% | 45.0% |
| Minimum Split (s)      | 10.6  | 33.7  | 10.3  | 31.5  | 10.6  | 37.5  | 10.2  | 31.4  |
| Yellow Time (s)        | 3.6   | 4.4   | 3.3   | 4     | 3.6   | 4.4   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.3   | 2     | 1.5   | 2     | 1.1   | 1.9   | 1.4   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 24    |       | 22    |       | 28    |       | 22    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 49    | 12    | 110   | 64    | 52    | 12    | 64    | 78    |
| End Time (s)           | 64    | 49    | 12    | 110   | 64    | 52    | 78    | 12    |
| Yield/Force Off (s)    | 58.4  | 43.3  | 6.7   | 104.5 | 58.4  | 46.5  | 72.8  | 6.6   |
| Yield/Force Off 170(s) | 58.4  | 19.3  | 6.7   | 82.5  | 58.4  | 18.5  | 72.8  | 104.6 |
| Local Start Time (s)   | 37    | 0     | 98    | 52    | 40    | 0     | 52    | 66    |
| Local Yield (s)        | 46.4  | 31.3  | 114.7 | 92.5  | 46.4  | 34.5  | 60.8  | 114.6 |
| Local Yield 170(s)     | 46.4  | 7.3   | 114.7 | 70.5  | 46.4  | 6.5   | 60.8  | 92.6  |

**Intersection Summary**

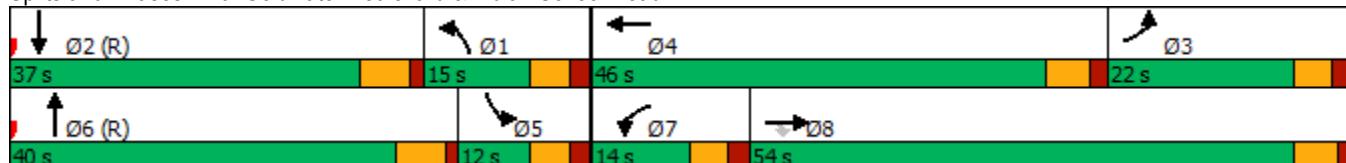
Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 12 (10%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Splits and Phases: 6: Goldwater Boulevard &amp; Indian School Road



| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  |      |      |       |      |      |      |       |      |      |      |      |      |
| Traffic Volume (veh/h)   | 26   | 605  | 12    | 64   | 646  | 31   | 4     | 4    | 9    | 2    | 4    | 13   |
| Future Volume (veh/h)  | 26   | 605  | 12    | 64   | 646  | 31   | 4     | 4    | 9    | 2    | 4    | 13   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  |      | No   |       |      | No   |      |       | No   |      |      | No   |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 28   | 658  | 13    | 70   | 702  | 34   | 4     | 4    | 10   | 2    | 4    | 14   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 516  | 2519 | 50    | 551  | 2438 | 118  | 90    | 96   | 187  | 49   | 86   | 238  |
| Arrive On Green  | 0.71 | 0.71 | 0.71  | 0.71 | 0.71 | 0.71 | 0.21  | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 |
| Sat Flow, veh/h  | 722  | 3564 | 70    | 767  | 3450 | 167  | 258   | 462  | 900  | 76   | 415  | 1147 |
| Grp Volume(v), veh/h   | 28   | 328  | 343   | 70   | 361  | 375  | 18    | 0    | 0    | 20   | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln  | 722  | 1777 | 1858  | 767  | 1777 | 1840 | 1620  | 0    | 0    | 1638 | 0    | 0    |
| Q Serve(g_s), s  | 1.8  | 8.0  | 8.0   | 4.3  | 9.0  | 9.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s  | 10.8 | 8.0  | 8.0   | 12.3 | 9.0  | 9.0  | 1.0   | 0.0  | 0.0  | 1.2  | 0.0  | 0.0  |
| Prop In Lane   | 1.00 |      | 0.04  | 1.00 |      | 0.09 | 0.22  |      | 0.56 | 0.10 |      | 0.70 |
| Lane Grp Cap(c), veh/h   | 516  | 1256 | 1313  | 551  | 1256 | 1300 | 373   | 0    | 0    | 373  | 0    | 0    |
| V/C Ratio(X)   | 0.05 | 0.26 | 0.26  | 0.13 | 0.29 | 0.29 | 0.05  | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h  | 516  | 1256 | 1313  | 551  | 1256 | 1300 | 373   | 0    | 0    | 373  | 0    | 0    |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.91 | 0.91 | 0.91  | 0.64 | 0.64 | 0.64 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh   | 8.5  | 6.3  | 6.3   | 8.5  | 6.5  | 6.5  | 38.1  | 0.0  | 0.0  | 38.1 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh   | 0.2  | 0.5  | 0.4   | 0.3  | 0.4  | 0.4  | 0.2   | 0.0  | 0.0  | 0.3  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.3  | 2.8  | 3.0   | 0.7  | 3.2  | 3.3  | 0.5   | 0.0  | 0.0  | 0.5  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 8.7  | 6.8  | 6.8   | 8.9  | 6.9  | 6.8  | 38.3  | 0.0  | 0.0  | 38.4 | 0.0  | 0.0  |
| LnGrp LOS  | A    | A    | A     | A    | A    | A    | D     | A    | A    | D    | A    | A    |
| Approach Vol, veh/h  | 699  |      |       |      | 806  |      |       | 18   |      |      | 20   |      |
| Approach Delay, s/veh  | 6.9  |      |       |      | 7.0  |      |       | 38.3 |      |      | 38.4 |      |
| Approach LOS   | A    |      |       |      | A    |      |       | D    |      |      | D    |      |
| Timer - Assigned Phs   | 2    |      | 4     |      | 6    |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 30.0 |      | 90.0  |      | 30.0 |      | 90.0  |      |      |      |      |      |
| Change Period (Y+Rc), s  | 5.1  |      | * 5.2 |      | 5.1  |      | * 5.2 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | 24.9 |      | * 85  |      | 24.9 |      | * 85  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 3.2  |      | 14.3  |      | 3.0  |      | 12.8  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0  |      | 3.4   |      | 0.0  |      | 2.8   |      |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      | 7.7   |      |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      | A     |      |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| User approved pedestrian interval to be less than phase max green.                                 |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | SBTL  | WBTL  | NBTL  | EBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | Max   | C-Max | Max   |
| Maximum Split (s)      | 30    | 90    | 30    | 90    |
| Maximum Split (%)      | 25.0% | 75.0% | 25.0% | 75.0% |
| Minimum Split (s)      | 29.1  | 22.5  | 30.1  | 22.5  |
| Yellow Time (s)        | 3.6   | 4     | 3.6   | 4     |
| All-Red Time (s)       | 1.5   | 1.2   | 1.5   | 1.2   |
| Minimum Initial (s)    | 7     | 10    | 7     | 10    |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 8     | 7     |
| Flash Dont Walk (s)    | 17    | 7     | 17    | 8     |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 6     | 36    | 6     | 36    |
| End Time (s)           | 36    | 6     | 36    | 6     |
| Yield/Force Off (s)    | 30.9  | 0.8   | 30.9  | 0.8   |
| Yield/Force Off 170(s) | 13.9  | 113.8 | 13.9  | 112.8 |
| Local Start Time (s)   | 0     | 30    | 0     | 30    |
| Local Yield (s)        | 24.9  | 114.8 | 24.9  | 114.8 |
| Local Yield 170(s)     | 7.9   | 107.8 | 7.9   | 106.8 |

## Intersection Summary

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 55

Offset: 6 (5%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green

Splits and Phases: 7: Marshall Way &amp; Indian School Road



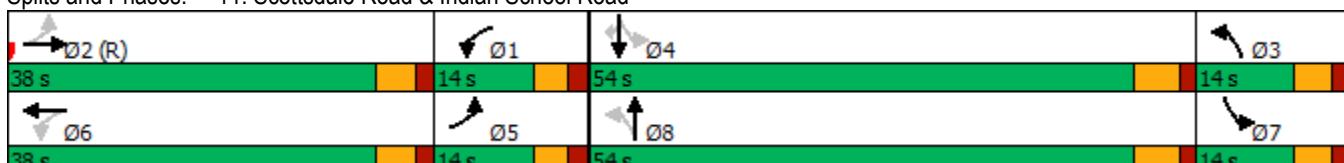
| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      | ↑     | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)   | 86   | 512  | 51    | 4    | 722  | 99   | 55    | 332  | 68   | 73   | 263  | 55   |
| Future Volume (veh/h)  | 86   | 512  | 51    | 4    | 722  | 99   | 55    | 332  | 68   | 73   | 263  | 55   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 93   | 557  | 55    | 4    | 785  | 108  | 60    | 361  | 74   | 79   | 286  | 60   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 276  | 893  | 88    | 345  | 858  | 118  | 529   | 1192 | 242  | 435  | 1439 | 642  |
| Arrive On Green  | 0.04 | 0.09 | 0.09  | 0.11 | 0.27 | 0.27 | 0.04  | 0.41 | 0.41 | 0.08 | 0.81 | 0.81 |
| Sat Flow, veh/h  | 1781 | 3267 | 322   | 1781 | 3138 | 432  | 1781  | 2943 | 597  | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h   | 93   | 302  | 310   | 4    | 444  | 449  | 60    | 216  | 219  | 79   | 286  | 60   |
| Grp Sat Flow(s), veh/h/ln  | 1781 | 1777 | 1812  | 1781 | 1777 | 1793 | 1781  | 1777 | 1763 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s  | 0.7  | 19.7 | 19.8  | 0.0  | 29.1 | 29.1 | 0.0   | 9.9  | 10.1 | 0.0  | 2.2  | 0.9  |
| Cycle Q Clear(g_c), s  | 0.7  | 19.7 | 19.8  | 0.0  | 29.1 | 29.1 | 0.0   | 9.9  | 10.1 | 0.0  | 2.2  | 0.9  |
| Prop In Lane   | 1.00 |      | 0.18  | 1.00 |      | 0.24 | 1.00  |      | 0.34 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 276  | 486  | 495   | 345  | 486  | 490  | 529   | 720  | 714  | 435  | 1439 | 642  |
| V/C Ratio(X)   | 0.34 | 0.62 | 0.63  | 0.01 | 0.92 | 0.92 | 0.11  | 0.30 | 0.31 | 0.18 | 0.20 | 0.09 |
| Avail Cap(c_a), veh/h  | 276  | 486  | 495   | 345  | 486  | 490  | 592   | 720  | 714  | 498  | 1439 | 642  |
| HCM Platoon Ratio  | 0.33 | 0.33 | 0.33  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 |
| Upstream Filter(l)   | 0.97 | 0.97 | 0.97  | 0.93 | 0.93 | 0.93 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 51.1 | 48.6 | 48.7  | 36.8 | 42.3 | 42.3 | 21.0  | 24.2 | 24.2 | 25.7 | 7.0  | 6.9  |
| Incr Delay (d2), s/veh   | 0.3  | 5.7  | 5.7   | 0.0  | 23.1 | 23.0 | 0.0   | 1.1  | 1.1  | 0.1  | 0.3  | 0.3  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.7  | 10.2 | 10.4  | 0.1  | 15.6 | 15.8 | 1.1   | 4.4  | 4.5  | 1.5  | 0.9  | 0.4  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 51.3 | 54.4 | 54.3  | 36.8 | 65.4 | 65.3 | 21.1  | 25.3 | 25.4 | 25.7 | 7.3  | 7.2  |
| LnGrp LOS  | D    | D    | D     | D    | E    | E    | C     | C    | C    | C    | A    | A    |
| Approach Vol, veh/h  |      | 705  |       |      |      | 897  |       |      | 495  |      | 425  |      |
| Approach Delay, s/veh  |      | 54.0 |       |      |      | 65.2 |       |      | 24.8 |      | 10.7 |      |
| Approach LOS   |      | D    |       |      |      | E    |       |      | C    |      | B    |      |
| Timer - Assigned Phs   | 1    | 2    | 3     | 4    | 5    | 6    | 7     | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 18.3 | 38.0 | 9.7   | 54.0 | 18.3 | 38.0 | 9.7   | 54.0 |      |      |      |      |
| Change Period (Y+Rc), s  | * 5  | 5.2  | * 5.1 | 5.4  | * 5  | 5.2  | * 5.1 | 5.4  |      |      |      |      |
| Max Green Setting (Gmax), s  | * 9  | 32.8 | * 8.9 | 48.6 | * 9  | 32.8 | * 8.9 | 48.6 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 2.0  | 21.8 | 2.0   | 4.2  | 2.7  | 31.1 | 2.0   | 12.1 |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0  | 1.0  | 0.0   | 1.4  | 0.0  | 0.5  | 0.0   | 1.9  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      | 44.9  |      |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      | D     |      |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | WBL   | EBTL  | NBL   | SBTL  | EBL   | WBTL  | SBL   | NBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | Max   | None  | Max   |
| Maximum Split (s)      | 14    | 38    | 14    | 54    | 14    | 38    | 14    | 54    |
| Maximum Split (%)      | 11.7% | 31.7% | 11.7% | 45.0% | 11.7% | 31.7% | 11.7% | 45.0% |
| Minimum Split (s)      | 10    | 35.2  | 10.1  | 33.4  | 10    | 35.2  | 10.1  | 33.4  |
| Yellow Time (s)        | 3     | 3.6   | 3.3   | 4     | 3     | 3.6   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.6   | 1.8   | 1.4   | 2     | 1.6   | 1.8   | 1.4   |
| Minimum Initial (s)    | 5     | 10    | 5     | 10    | 5     | 10    | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 2     | 2     | 1     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 8     |       | 8     |       | 8     |       | 8     |
| Flash Dont Walk (s)    |       | 22    |       | 20    |       | 22    |       | 20    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 38    | 0     | 106   | 52    | 38    | 0     | 106   | 52    |
| End Time (s)           | 52    | 38    | 0     | 106   | 52    | 38    | 0     | 106   |
| Yield/Force Off (s)    | 47    | 32.8  | 114.9 | 100.6 | 47    | 32.8  | 114.9 | 100.6 |
| Yield/Force Off 170(s) | 47    | 10.8  | 114.9 | 80.6  | 47    | 10.8  | 114.9 | 80.6  |
| Local Start Time (s)   | 38    | 0     | 106   | 52    | 38    | 0     | 106   | 52    |
| Local Yield (s)        | 47    | 32.8  | 114.9 | 100.6 | 47    | 32.8  | 114.9 | 100.6 |
| Local Yield 170(s)     | 47    | 10.8  | 114.9 | 80.6  | 47    | 10.8  | 114.9 | 80.6  |

**Intersection Summary**

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 0 (0%), Referenced to phase 2:EBTL, Start of Green |                      |

**Splits and Phases:** 11: Scottsdale Road & Indian School Road

| Movement   | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|------|-------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑   |      | ↑    | ↑↑    |      |       | ↔    |      | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)   | 113   | 718  | 10   | 40   | 923   | 131  | 2     | 1    | 15   | 37   | 0    | 48   |
| Future Volume (veh/h)  | 113   | 718  | 10   | 40   | 923   | 131  | 2     | 1    | 15   | 37   | 0    | 48   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00 |       | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      |      | No   |       |      | No    |      | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 123   | 780  | 11   | 43   | 1003  | 142  | 2     | 1    | 16   | 40   | 0    | 52   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2    | 2     | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 444   | 3055 | 43   | 644  | 2661  | 376  | 37    | 10   | 77   | 144  | 0    | 90   |
| Arrive On Green  | 1.00  | 1.00 | 1.00 | 0.85 | 0.85  | 0.85 | 0.06  | 0.06 | 0.06 | 0.06 | 0.00 | 0.06 |
| Sat Flow, veh/h  | 491   | 3588 | 51   | 685  | 3125  | 442  | 72    | 180  | 1347 | 1472 | 0    | 1585 |
| Grp Volume(v), veh/h   | 123   | 386  | 405  | 43   | 570   | 575  | 19    | 0    | 0    | 40   | 0    | 52   |
| Grp Sat Flow(s), veh/h/ln  | 491   | 1777 | 1861 | 685  | 1777  | 1791 | 1600  | 0    | 0    | 1472 | 0    | 1585 |
| Q Serve(g_s), s  | 3.5   | 0.0  | 0.0  | 1.2  | 8.4   | 8.4  | 0.0   | 0.0  | 0.0  | 1.6  | 0.0  | 3.8  |
| Cycle Q Clear(g_c), s  | 11.9  | 0.0  | 0.0  | 1.2  | 8.4   | 8.4  | 1.3   | 0.0  | 0.0  | 3.0  | 0.0  | 3.8  |
| Prop In Lane   | 1.00  |      | 0.03 | 1.00 |       | 0.25 | 0.11  |      | 0.84 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 444   | 1513 | 1585 | 644  | 1513  | 1525 | 124   | 0    | 0    | 144  | 0    | 90   |
| V/C Ratio(X)   | 0.28  | 0.26 | 0.26 | 0.07 | 0.38  | 0.38 | 0.15  | 0.00 | 0.00 | 0.28 | 0.00 | 0.58 |
| Avail Cap(c_a), veh/h  | 444   | 1513 | 1585 | 644  | 1513  | 1525 | 493   | 0    | 0    | 464  | 0    | 454  |
| HCM Platoon Ratio  | 2.00  | 2.00 | 2.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.92  | 0.92 | 0.92 | 0.47 | 0.47  | 0.47 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh   | 0.5   | 0.0  | 0.0  | 1.4  | 1.9   | 2.0  | 54.0  | 0.0  | 0.0  | 54.7 | 0.0  | 55.2 |
| Incr Delay (d2), s/veh   | 1.4   | 0.4  | 0.4  | 0.1  | 0.3   | 0.3  | 0.2   | 0.0  | 0.0  | 0.4  | 0.0  | 2.2  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.2   | 0.2  | 0.2  | 0.1  | 1.7   | 1.7  | 0.6   | 0.0  | 0.0  | 1.2  | 0.0  | 1.6  |
| Unsig. Movement Delay, s/veh   |       |      |      |      |       |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 1.9   | 0.4  | 0.4  | 1.5  | 2.3   | 2.3  | 54.2  | 0.0  | 0.0  | 55.1 | 0.0  | 57.3 |
| LnGrp LOS  | A     | A    | A    | A    | A     | A    | D     | A    | A    | E    | A    | E    |
| Approach Vol, veh/h  | 914   |      |      |      | 1188  |      |       | 19   |      |      | 92   |      |
| Approach Delay, s/veh  | 0.6   |      |      |      | 2.3   |      |       | 54.2 |      |      | 56.3 |      |
| Approach LOS   | A     |      |      |      | A     |      |       | D    |      |      | E    |      |
| Timer - Assigned Phs   | 2     |      | 4    |      | 6     |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 107.6 |      | 12.4 |      | 107.6 |      | 12.4  |      |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.4 |      | 5.6  |      | * 5.4 |      | * 5.6 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | * 75  |      | 34.4 |      | * 75  |      | * 35  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 13.9  |      | 5.8  |      | 10.4  |      | 3.3   |      |      |      |      |      |
| Green Ext Time (p_c), s  | 4.9   |      | 0.2  |      | 5.9   |      | 0.0   |      |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |      |       |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      | 4.3  |      |       |      |       |      |      |      |      |      |
| HCM 6th LOS  |       |      | A    |      |       |      |       |      |      |      |      |      |
| <b>Notes</b>   |       |      |      |      |       |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |      |       |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | EBTL  | SBTL  | WBTL  | NBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | None  | Max   | None  |
| Maximum Split (s)      | 80    | 40    | 80    | 40    |
| Maximum Split (%)      | 66.7% | 33.3% | 66.7% | 33.3% |
| Minimum Split (s)      | 27.4  | 36.6  | 27.4  | 36    |
| Yellow Time (s)        | 4     | 3.6   | 4     | 3.6   |
| All-Red Time (s)       | 1.4   | 2     | 1.4   | 1.4   |
| Minimum Initial (s)    | 10    | 7     | 10    | 7     |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 7     | 7     |
| Flash Dont Walk (s)    | 15    | 24    | 15    | 24    |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 19    | 99    | 19    | 99    |
| End Time (s)           | 99    | 19    | 99    | 19    |
| Yield/Force Off (s)    | 93.6  | 13.4  | 93.6  | 14    |
| Yield/Force Off 170(s) | 78.6  | 109.4 | 78.6  | 110   |
| Local Start Time (s)   | 0     | 80    | 0     | 80    |
| Local Yield (s)        | 74.6  | 114.4 | 74.6  | 115   |
| Local Yield 170(s)     | 59.6  | 90.4  | 59.6  | 91    |

**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 19 (16%), Referenced to phase 2:EBTL, Start of Green

Splits and Phases: 12: Buckboard Trail &amp; Indian School Road



| Movement   | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑↓   |       | ↑     | ↑↑    | ↑     | ↑     | ↑↑    | ↑    | ↑↑   | ↑↑   |      |
| Traffic Volume (veh/h)   | 83    | 560   | 33    | 299   | 1065  | 194   | 58    | 353   | 172  | 83   | 135  | 16   |
| Future Volume (veh/h)  | 83    | 560   | 33    | 299   | 1065  | 194   | 58    | 353   | 172  | 83   | 135  | 16   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |       |       | No    |       |       | No    |       |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 90    | 609   | 36    | 325   | 1158  | 211   | 63    | 384   | 187  | 90   | 147  | 17   |
| Peak Hour Factor   | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 189   | 1330  | 79    | 353   | 1386  | 618   | 241   | 885   | 395  | 468  | 801  | 91   |
| Arrive On Green  | 0.05  | 0.39  | 0.39  | 0.05  | 0.39  | 0.39  | 0.14  | 0.25  | 0.25 | 0.14 | 0.25 | 0.25 |
| Sat Flow, veh/h  | 1781  | 3410  | 201   | 1781  | 3554  | 1585  | 1781  | 3554  | 1585 | 3456 | 3214 | 367  |
| Grp Volume(v), veh/h   | 90    | 317   | 328   | 325   | 1158  | 211   | 63    | 384   | 187  | 90   | 80   | 84   |
| Grp Sat Flow(s), veh/h/ln  | 1781  | 1777  | 1834  | 1781  | 1777  | 1585  | 1781  | 1777  | 1585 | 1728 | 1777 | 1804 |
| Q Serve(g_s), s  | 0.0   | 15.9  | 15.9  | 3.8   | 35.4  | 11.2  | 3.8   | 10.9  | 12.1 | 2.8  | 4.3  | 4.4  |
| Cycle Q Clear(g_c), s  | 0.0   | 15.9  | 15.9  | 3.8   | 35.4  | 11.2  | 3.8   | 10.9  | 12.1 | 2.8  | 4.3  | 4.4  |
| Prop In Lane   | 1.00  |       | 0.11  | 1.00  |       | 1.00  | 1.00  |       | 1.00 | 1.00 |      | 0.20 |
| Lane Grp Cap(c), veh/h   | 189   | 693   | 715   | 353   | 1386  | 618   | 241   | 885   | 395  | 468  | 443  | 450  |
| V/C Ratio(X)   | 0.48  | 0.46  | 0.46  | 0.92  | 0.84  | 0.34  | 0.26  | 0.43  | 0.47 | 0.19 | 0.18 | 0.19 |
| Avail Cap(c_a), veh/h  | 316   | 693   | 715   | 480   | 1386  | 618   | 241   | 885   | 395  | 468  | 443  | 450  |
| HCM Platoon Ratio  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.98  | 0.98  | 0.98  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 51.6  | 27.2  | 27.2  | 44.7  | 33.1  | 25.8  | 46.5  | 37.9  | 38.3 | 46.1 | 35.4 | 35.5 |
| Incr Delay (d2), s/veh   | 0.7   | 2.1   | 2.1   | 16.3  | 6.1   | 1.5   | 0.2   | 1.5   | 4.0  | 0.1  | 0.9  | 0.9  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.6   | 7.0   | 7.3   | 11.0  | 16.0  | 4.4   | 1.7   | 4.9   | 5.1  | 1.2  | 2.0  | 2.0  |
| Unsig. Movement Delay, s/veh   |       |       |       |       |       |       |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 52.3  | 29.3  | 29.3  | 61.0  | 39.2  | 27.3  | 46.7  | 39.5  | 42.4 | 46.1 | 36.3 | 36.4 |
| LnGrp LOS  | D     | C     | C     | E     | D     | C     | D     | D     | D    | D    | D    | D    |
| Approach Vol, veh/h  |       | 735   |       |       | 1694  |       |       | 634   |      |      | 254  |      |
| Approach Delay, s/veh  |       | 32.1  |       |       | 41.9  |       |       | 41.0  |      |      | 39.8 |      |
| Approach LOS   |       | C     |       |       | D     |       |       | D     |      |      | D    |      |
| Timer - Assigned Phs   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 21.5  | 35.0  | 11.5  | 52.0  | 21.5  | 35.0  | 11.5  | 52.0  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.3 | * 5.1 | * 5.3 | * 5.2 | * 5.3 | * 5.1 | * 5.3 | * 5.2 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 7.7 | * 30  | * 15  | * 47  | * 7.7 | * 30  | * 15  | * 47  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 5.8   | 6.4   | 2.0   | 37.4  | 4.8   | 14.1  | 5.8   | 17.9  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 0.1   | 0.1   | 1.4   | 0.0   | 0.4   | 0.3   | 0.6   |      |      |      |      |
| <b>Intersection Summary</b>  |       |       |       |       |       |       |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |       | 39.4  |       |       |       |       |       |      |      |      |      |
| HCM 6th LOS  |       |       | D     |       |       |       |       |       |      |      |      |      |
| <b>Notes</b>   |       |       |       |       |       |       |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |       |       |       |       |       |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBTL  | SBL   | NBT   | WBL   | EBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 13    | 35    | 20    | 52    | 13    | 35    | 20    | 52    |
| Maximum Split (%)      | 10.8% | 29.2% | 16.7% | 43.3% | 10.8% | 29.2% | 16.7% | 43.3% |
| Minimum Split (s)      | 10.3  | 29.1  | 10.3  | 28.2  | 10.3  | 29.1  | 10.3  | 30.2  |
| Yellow Time (s)        | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.1   | 2     | 1.2   | 2     | 1.1   | 2     | 1.2   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 20    |       | 19    |       | 20    |       | 21    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 34    | 119   | 99    | 47    | 34    | 119   | 99    | 47    |
| End Time (s)           | 47    | 34    | 119   | 99    | 47    | 34    | 119   | 99    |
| Yield/Force Off (s)    | 41.7  | 28.9  | 113.7 | 93.8  | 41.7  | 28.9  | 113.7 | 93.8  |
| Yield/Force Off 170(s) | 41.7  | 8.9   | 113.7 | 74.8  | 41.7  | 8.9   | 113.7 | 72.8  |
| Local Start Time (s)   | 35    | 0     | 100   | 48    | 35    | 0     | 100   | 48    |
| Local Yield (s)        | 42.7  | 29.9  | 114.7 | 94.8  | 42.7  | 29.9  | 114.7 | 94.8  |
| Local Yield 170(s)     | 42.7  | 9.9   | 114.7 | 75.8  | 42.7  | 9.9   | 114.7 | 73.8  |

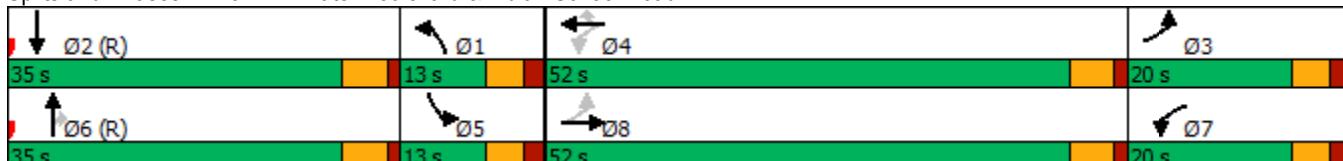
**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 80

Offset: 119 (99%), Referenced to phase 2:SBT and 6:NBT, Start of Green

**Splits and Phases:** 13: Drinkwater Boulevard & Indian School Road

**Intersection**

Int Delay, s/veh 0.8

| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | W    |      | ↑↑   |      | ↑    | ↑↑↑  |
| Traffic Vol, veh/h       | 27   | 74   | 606  | 13   | 16   | 726  |
| Future Vol, veh/h        | 27   | 74   | 606  | 13   | 16   | 726  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | 100  | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | 0    | -    | 0    | -    | -    | 0    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 29   | 80   | 659  | 14   | 17   | 789  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |       |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 1016   | 337    | 0      | 0 | 673   |
| Stage 1              | 666    | -      | -      | - | -     |
| Stage 2              | 350    | -      | -      | - | -     |
| Critical Hdwy        | 6.29   | 6.94   | -      | - | 4.14  |
| Critical Hdwy Stg 1  | 5.84   | -      | -      | - | -     |
| Critical Hdwy Stg 2  | 6.04   | -      | -      | - | -     |
| Follow-up Hdwy       | 3.67   | 3.32   | -      | - | 2.22  |
| Pot Cap-1 Maneuver   | *730   | *846   | -      | - | *1265 |
| Stage 1              | *765   | -      | -      | - | -     |
| Stage 2              | *648   | -      | -      | - | -     |
| Platoon blocked, %   | 1      | 1      | -      | - | 1     |
| Mov Cap-1 Maneuver   | *721   | *846   | -      | - | *1265 |
| Mov Cap-2 Maneuver   | *746   | -      | -      | - | -     |
| Stage 1              | *765   | -      | -      | - | -     |
| Stage 2              | *640   | -      | -      | - | -     |

| Approach             | WB   | NB | SB  |
|----------------------|------|----|-----|
| HCM Control Delay, s | 10.1 | 0  | 0.2 |
| HCM LOS              | B    |    |     |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL    | SBT |
|-----------------------|-----|-----|-------|--------|-----|
| Capacity (veh/h)      | -   | -   | 817   | * 1265 | -   |
| HCM Lane V/C Ratio    | -   | -   | 0.134 | 0.014  | -   |
| HCM Control Delay (s) | -   | -   | 10.1  | 7.9    | -   |
| HCM Lane LOS          | -   | -   | B     | A      | -   |
| HCM 95th %tile Q(veh) | -   | -   | 0.5   | 0      | -   |

**Notes**

~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

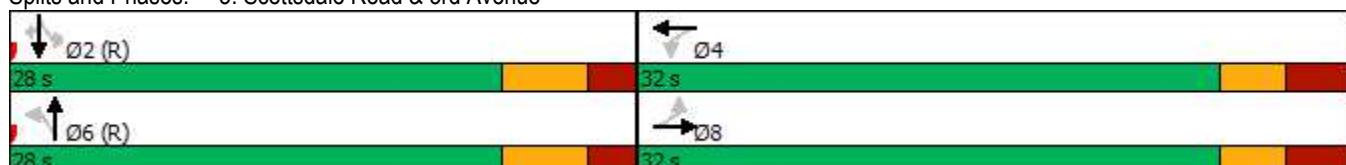
| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 2.6    |        |        |      |       |       |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL   | SBR   |
| Lane Configurations      |        |        |        |      |       |       |
| Traffic Vol, veh/h       | 23     | 51     | 83     | 15   | 19    | 22    |
| Future Vol, veh/h        | 23     | 51     | 83     | 15   | 19    | 22    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | -      | -      | -    | 0     | -     |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0     | -     |
| Grade, %                 | -      | 0      | 0      | -    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 25     | 55     | 90     | 16   | 21    | 24    |
| Major/Minor              | Major1 | Major2 | Minor2 |      |       |       |
| Conflicting Flow All     | 106    | 0      | -      | 0    | 203   | 98    |
| Stage 1                  | -      | -      | -      | -    | 98    | -     |
| Stage 2                  | -      | -      | -      | -    | 105   | -     |
| Critical Hdwy            | 4.12   | -      | -      | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | 2.218  | -      | -      | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | 1490   | -      | -      | -    | 795   | 971   |
| Stage 1                  | -      | -      | -      | -    | 933   | -     |
| Stage 2                  | -      | -      | -      | -    | 919   | -     |
| Platoon blocked, %       | 1      | -      | -      | -    | 1     | 1     |
| Mov Cap-1 Maneuver       | 1490   | -      | -      | -    | 781   | 971   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 781   | -     |
| Stage 1                  | -      | -      | -      | -    | 917   | -     |
| Stage 2                  | -      | -      | -      | -    | 919   | -     |
| Approach                 | EB     | WB     | SB     |      |       |       |
| HCM Control Delay, s     | 2.3    | 0      | 9.3    |      |       |       |
| HCM LOS                  |        |        | A      |      |       |       |
| Minor Lane/Major Mvmt    | EBL    | EBT    | WBT    | WBR  | SBLn1 |       |
| Capacity (veh/h)         | 1490   | -      | -      | -    | 873   |       |
| HCM Lane V/C Ratio       | 0.017  | -      | -      | -    | 0.051 |       |
| HCM Control Delay (s)    | 7.5    | 0      | -      | -    | 9.3   |       |
| HCM Lane LOS             | A      | A      | -      | -    | A     |       |
| HCM 95th %tile Q(veh)    | 0.1    | -      | -      | -    | 0.2   |       |

| Movement                              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations                   | ↑    | ↑    |      | ↑    | ↑    |      | ↑    | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)                | 51   | 24   | 93   | 58   | 48   | 174  | 55   | 569  | 25   | 31   | 760  | 47   |
| Future Volume (veh/h)                 | 51   | 24   | 93   | 58   | 48   | 174  | 55   | 569  | 25   | 31   | 760  | 47   |
| Initial Q (Q <sub>b</sub> ), veh      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                   | 1.00 |      |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj                      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                 | No   |      |      | No   |      |      | No   |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln                | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h                  | 55   | 26   | 101  | 63   | 52   | 189  | 60   | 618  | 27   | 34   | 826  | 51   |
| Peak Hour Factor                      | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %                  | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h                            | 220  | 74   | 289  | 318  | 78   | 285  | 405  | 2005 | 88   | 574  | 2055 | 916  |
| Arrive On Green                       | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 1.00 | 1.00 | 1.00 | 0.58 | 0.58 | 0.58 |
| Sat Flow, veh/h                       | 1139 | 335  | 1301 | 1264 | 354  | 1285 | 632  | 3469 | 151  | 785  | 3554 | 1585 |
| Grp Volume(v), veh/h                  | 55   | 0    | 127  | 63   | 0    | 241  | 60   | 316  | 329  | 34   | 826  | 51   |
| Grp Sat Flow(s), veh/h/ln             | 1139 | 0    | 1636 | 1264 | 0    | 1639 | 632  | 1777 | 1843 | 785  | 1777 | 1585 |
| Q Serve(g_s), s                       | 2.8  | 0.0  | 3.9  | 2.7  | 0.0  | 8.0  | 1.5  | 0.0  | 0.0  | 1.1  | 7.7  | 0.8  |
| Cycle Q Clear(g_c), s                 | 10.8 | 0.0  | 3.9  | 6.6  | 0.0  | 8.0  | 9.2  | 0.0  | 0.0  | 1.1  | 7.7  | 0.8  |
| Prop In Lane                          | 1.00 |      |      | 1.00 |      |      | 0.78 | 1.00 |      | 0.08 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h                | 220  | 0    | 363  | 318  | 0    | 364  | 405  | 1027 | 1066 | 574  | 2055 | 916  |
| V/C Ratio(X)                          | 0.25 | 0.00 | 0.35 | 0.20 | 0.00 | 0.66 | 0.15 | 0.31 | 0.31 | 0.06 | 0.40 | 0.06 |
| Avail Cap(c_a), veh/h                 | 461  | 0    | 709  | 585  | 0    | 710  | 405  | 1027 | 1066 | 574  | 2055 | 916  |
| HCM Platoon Ratio                     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                    | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.88 | 0.88 | 0.88 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh              | 26.2 | 0.0  | 19.7 | 22.5 | 0.0  | 21.3 | 1.0  | 0.0  | 0.0  | 5.6  | 7.0  | 5.5  |
| Incr Delay (d2), s/veh                | 0.2  | 0.0  | 0.2  | 0.1  | 0.0  | 0.8  | 0.7  | 0.7  | 0.7  | 0.2  | 0.6  | 0.1  |
| Initial Q Delay(d3), s/veh            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln             | 0.7  | 0.0  | 1.4  | 0.8  | 0.0  | 3.0  | 0.1  | 0.2  | 0.2  | 0.2  | 2.4  | 0.2  |
| Unsig. Movement Delay, s/veh          |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                 | 26.5 | 0.0  | 19.9 | 22.6 | 0.0  | 22.1 | 1.7  | 0.7  | 0.7  | 5.8  | 7.5  | 5.6  |
| LnGrp LOS                             | C    | A    | B    | C    | A    | C    | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                   | 182  |      |      |      | 304  |      |      | 705  |      |      | 911  |      |
| Approach Delay, s/veh                 | 21.9 |      |      |      | 22.2 |      |      | 0.8  |      |      | 7.4  |      |
| Approach LOS                          | C    |      |      |      | C    |      |      | A    |      |      | A    |      |
| Timer - Assigned Phs                  | 2    |      | 4    |      | 6    |      | 8    |      |      |      |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s | 40.7 |      | 19.3 |      | 40.7 |      | 19.3 |      |      |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s  | 6.0  |      | 6.0  |      | 6.0  |      | 6.0  |      |      |      |      |      |
| Max Green Setting (Gmax), s           | 22.0 |      | 26.0 |      | 22.0 |      | 26.0 |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s          | 9.7  |      | 10.0 |      | 11.2 |      | 12.8 |      |      |      |      |      |
| Green Ext Time (p_c), s               | 2.2  |      | 1.0  |      | 1.4  |      | 0.5  |      |      |      |      |      |
| <b>Intersection Summary</b>           |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                    |      |      | 8.6  |      |      |      |      |      |      |      |      |      |
| HCM 6th LOS                           |      |      | A    |      |      |      |      |      |      |      |      |      |

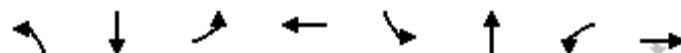


| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | SBTL                 | WBTL  | NBTL  | EBTL  |
| Lead/Lag  |                      |       |       |       |
| Lead-Lag Optimize   |                      |       |       |       |
| Recall Mode   | C-Max                | None  | C-Max | None  |
| Maximum Split (s)   | 28                   | 32    | 28    | 32    |
| Maximum Split (%)   | 46.7%                | 53.3% | 46.7% | 53.3% |
| Minimum Split (s)   | 23                   | 32    | 23    | 32    |
| Yellow Time (s)   | 3.8                  | 3     | 3.8   | 3     |
| All-Red Time (s)  | 2.2                  | 3     | 2.2   | 3     |
| Minimum Initial (s)   | 10                   | 10    | 10    | 10    |
| Vehicle Extension (s)   | 1                    | 2     | 1     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)  | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 7     | 7     |
| Flash Dont Walk (s)   | 10                   | 19    | 10    | 19    |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 27                   | 55    | 27    | 55    |
| End Time (s)  | 55                   | 27    | 55    | 27    |
| Yield/Force Off (s)   | 49                   | 21    | 49    | 21    |
| Yield/Force Off 170(s)  | 39                   | 2     | 39    | 2     |
| Local Start Time (s)  | 0                    | 28    | 0     | 28    |
| Local Yield (s)   | 22                   | 54    | 22    | 54    |
| Local Yield 170(s)  | 12                   | 35    | 12    | 35    |
| <b>Intersection Summary</b>   |                      |       |       |       |
| Cycle Length  | 60                   |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 55                   |       |       |       |
| Offset: 27 (45%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green |                      |       |       |       |

Splits and Phases: 5: Scottsdale Road & 3rd Avenue



| Movement   | EBL   | EBT  | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|-------|-------|------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑↑    | ↑↑   | ↑    | ↑↑    | ↑↑    | ↑↑   | ↑     | ↑↑    | ↑    | ↑    | ↑↑↑  |      |
| Traffic Volume (veh/h)   | 210   | 682  | 59   | 64    | 602   | 55   | 90    | 343   | 43   | 75   | 524  | 158  |
| Future Volume (veh/h)  | 210   | 682  | 59   | 64    | 602   | 55   | 90    | 343   | 43   | 75   | 524  | 158  |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00  |       | 1.00 | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      | No   |       | No    |      | No    |       | No   | No   |      | No   |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870  | 1870  | 1870 | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 228   | 741  | 64   | 70    | 654   | 60   | 98    | 373   | 47   | 82   | 570  | 172  |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2     | 2     | 2    | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 297   | 1439 | 642  | 130   | 1166  | 107  | 129   | 967   | 121  | 129  | 1184 | 349  |
| Arrive On Green  | 0.09  | 0.41 | 0.41 | 0.01  | 0.12  | 0.12 | 0.07  | 0.30  | 0.30 | 0.07 | 0.30 | 0.30 |
| Sat Flow, veh/h  | 3456  | 3554 | 1585 | 3456  | 3291  | 302  | 1781  | 3178  | 398  | 1781 | 3913 | 1153 |
| Grp Volume(v), veh/h   | 228   | 741  | 64   | 70    | 353   | 361  | 98    | 207   | 213  | 82   | 494  | 248  |
| Grp Sat Flow(s), veh/h/ln  | 1728  | 1777 | 1585 | 1728  | 1777  | 1816 | 1781  | 1777  | 1799 | 1781 | 1702 | 1663 |
| Q Serve(g_s), s  | 7.7   | 18.8 | 2.2  | 2.4   | 22.5  | 22.6 | 6.5   | 11.0  | 11.2 | 5.4  | 14.2 | 14.7 |
| Cycle Q Clear(g_c), s  | 7.7   | 18.8 | 2.2  | 2.4   | 22.5  | 22.6 | 6.5   | 11.0  | 11.2 | 5.4  | 14.2 | 14.7 |
| Prop In Lane   | 1.00  |      | 1.00 | 1.00  |       | 0.17 | 1.00  |       | 0.22 | 1.00 |      | 0.69 |
| Lane Grp Cap(c), veh/h   | 297   | 1439 | 642  | 130   | 629   | 643  | 129   | 540   | 547  | 129  | 1030 | 503  |
| V/C Ratio(X)   | 0.77  | 0.51 | 0.10 | 0.54  | 0.56  | 0.56 | 0.76  | 0.38  | 0.39 | 0.64 | 0.48 | 0.49 |
| Avail Cap(c_a), veh/h  | 366   | 1439 | 642  | 196   | 629   | 643  | 129   | 540   | 547  | 129  | 1030 | 503  |
| HCM Platoon Ratio  | 1.00  | 1.00 | 1.00 | 0.33  | 0.33  | 0.33 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 1.00  | 1.00 | 1.00 | 0.96  | 0.96  | 0.96 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 53.7  | 26.8 | 11.6 | 58.2  | 44.2  | 44.2 | 54.6  | 32.9  | 32.9 | 54.1 | 34.1 | 34.3 |
| Incr Delay (d2), s/veh   | 5.8   | 1.3  | 0.3  | 1.2   | 3.4   | 3.4  | 20.7  | 2.1   | 2.1  | 7.7  | 1.6  | 3.4  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 3.6   | 8.1  | 1.2  | 1.1   | 11.3  | 11.6 | 3.6   | 5.0   | 5.2  | 2.7  | 6.0  | 6.3  |
| Unsig. Movement Delay, s/veh   |       |      |      |       |       |      |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 59.5  | 28.2 | 11.9 | 59.5  | 47.6  | 47.6 | 75.4  | 34.9  | 35.0 | 61.8 | 35.7 | 37.7 |
| LnGrp LOS  | E     | C    | B    | E     | D     | D    | E     | C     | D    | E    | D    | D    |
| Approach Vol, veh/h  | 1033  |      |      |       | 784   |      |       | 518   |      |      | 824  |      |
| Approach Delay, s/veh  | 34.1  |      |      |       | 48.6  |      |       | 42.6  |      |      | 38.9 |      |
| Approach LOS   | C     |      |      |       | D     |      |       | D     |      |      | D    |      |
| Timer - Assigned Phs   | 1     | 2    | 3    | 4     | 5     | 6    | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 14.3  | 42.0 | 15.7 | 48.0  | 14.3  | 42.0 | 9.7   | 54.0  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.6 | 5.7  | 5.4  | * 5.5 | * 5.6 | 5.5  | * 5.2 | * 5.4 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 6.4 | 36.3 | 12.7 | * 43  | * 6.4 | 36.5 | * 6.8 | * 49  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 8.5   | 16.7 | 9.7  | 24.6  | 7.4   | 13.2 | 4.4   | 20.8  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 1.7  | 0.1  | 1.4   | 0.0   | 0.8  | 0.0   | 1.9   |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |       |       |      |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      |      | 40.4  |       |      |       |       |      |      |      |      |
| HCM 6th LOS  |       |      |      | D     |       |      |       |       |      |      |      |      |
| <b>Notes</b>   |       |      |      |       |       |      |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |       |       |      |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBT   | SBL   | NBT   | WBL   | EBT   |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lead  | Lag   |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 12    | 42    | 18    | 48    | 12    | 42    | 12    | 54    |
| Maximum Split (%)      | 10.0% | 35.0% | 15.0% | 40.0% | 10.0% | 35.0% | 10.0% | 45.0% |
| Minimum Split (s)      | 10.6  | 33.7  | 10.3  | 31.5  | 10.6  | 37.5  | 10.2  | 31.4  |
| Yellow Time (s)        | 3.6   | 4.4   | 3.3   | 4     | 3.6   | 4.4   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.3   | 2     | 1.5   | 2     | 1.1   | 1.9   | 1.4   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 24    |       | 22    |       | 28    |       | 22    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 47    | 5     | 107   | 59    | 47    | 5     | 59    | 71    |
| End Time (s)           | 59    | 47    | 5     | 107   | 59    | 47    | 71    | 5     |
| Yield/Force Off (s)    | 53.4  | 41.3  | 119.7 | 101.5 | 53.4  | 41.5  | 65.8  | 119.6 |
| Yield/Force Off 170(s) | 53.4  | 17.3  | 119.7 | 79.5  | 53.4  | 13.5  | 65.8  | 97.6  |
| Local Start Time (s)   | 42    | 0     | 102   | 54    | 42    | 0     | 54    | 66    |
| Local Yield (s)        | 48.4  | 36.3  | 114.7 | 96.5  | 48.4  | 36.5  | 60.8  | 114.6 |
| Local Yield 170(s)     | 48.4  | 12.3  | 114.7 | 74.5  | 48.4  | 8.5   | 60.8  | 92.6  |

**Intersection Summary**

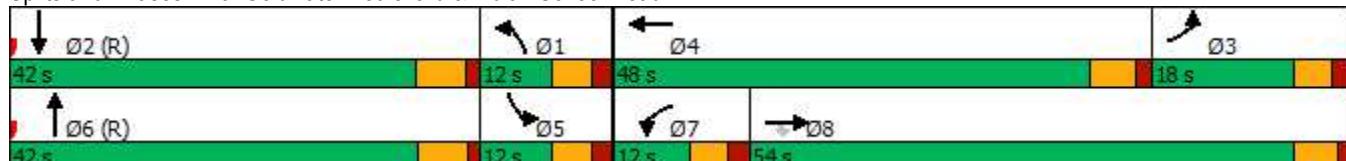
Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 5 (4%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Splits and Phases: 6: Goldwater Boulevard &amp; Indian School Road



| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  |      |      |       |      |      |      |       |      |      |      |      |      |
| Traffic Volume (veh/h)   | 31   | 758  | 31    | 56   | 728  | 58   | 17    | 17   | 31   | 13   | 34   | 47   |
| Future Volume (veh/h)  | 31   | 758  | 31    | 56   | 728  | 58   | 17    | 17   | 31   | 13   | 34   | 47   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 34   | 824  | 34    | 61   | 791  | 63   | 18    | 18   | 34   | 14   | 37   | 51   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 493  | 2603 | 107   | 491  | 2495 | 199  | 86    | 89   | 130  | 53   | 120  | 139  |
| Arrive On Green  | 0.75 | 0.75 | 0.75  | 0.75 | 0.75 | 0.75 | 0.17  | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 |
| Sat Flow, veh/h  | 646  | 3478 | 143   | 644  | 3334 | 265  | 294   | 538  | 786  | 115  | 722  | 838  |
| Grp Volume(v), veh/h   | 34   | 421  | 437   | 61   | 421  | 433  | 70    | 0    | 0    | 102  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln  | 646  | 1777 | 1845  | 644  | 1777 | 1823 | 1617  | 0    | 0    | 1675 | 0    | 0    |
| Q Serve(g_s), s  | 2.2  | 9.4  | 9.4   | 4.1  | 9.4  | 9.4  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s  | 11.6 | 9.4  | 9.4   | 13.5 | 9.4  | 9.4  | 4.2   | 0.0  | 0.0  | 6.3  | 0.0  | 0.0  |
| Prop In Lane   | 1.00 |      | 0.08  | 1.00 |      | 0.15 | 0.26  |      | 0.49 | 0.14 |      | 0.50 |
| Lane Grp Cap(c), veh/h   | 493  | 1330 | 1380  | 491  | 1330 | 1364 | 306   | 0    | 0    | 312  | 0    | 0    |
| V/C Ratio(X)   | 0.07 | 0.32 | 0.32  | 0.12 | 0.32 | 0.32 | 0.23  | 0.00 | 0.00 | 0.33 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h  | 493  | 1330 | 1380  | 491  | 1330 | 1364 | 306   | 0    | 0    | 312  | 0    | 0    |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.83 | 0.83 | 0.83  | 0.72 | 0.72 | 0.72 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh   | 6.9  | 5.0  | 5.0   | 7.2  | 5.0  | 5.0  | 43.5  | 0.0  | 0.0  | 44.4 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh   | 0.2  | 0.5  | 0.5   | 0.4  | 0.5  | 0.4  | 1.7   | 0.0  | 0.0  | 2.8  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.3  | 3.1  | 3.2   | 0.6  | 3.1  | 3.2  | 2.0   | 0.0  | 0.0  | 3.0  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 7.1  | 5.5  | 5.5   | 7.6  | 5.4  | 5.4  | 45.3  | 0.0  | 0.0  | 47.2 | 0.0  | 0.0  |
| LnGrp LOS  | A    | A    | A     | A    | A    | A    | D     | A    | A    | D    | A    | A    |
| Approach Vol, veh/h  | 892  |      |       |      | 915  |      |       | 70   |      |      | 102  |      |
| Approach Delay, s/veh  | 5.6  |      |       |      | 5.6  |      |       | 45.3 |      |      | 47.2 |      |
| Approach LOS   | A    |      |       |      | A    |      |       | D    |      |      | D    |      |
| Timer - Assigned Phs   | 2    |      | 4     |      | 6    |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 25.0 |      | 95.0  |      | 25.0 |      | 95.0  |      |      |      |      |      |
| Change Period (Y+Rc), s  | 5.1  |      | * 5.2 |      | 5.1  |      | * 5.2 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | 19.9 |      | * 90  |      | 19.9 |      | * 90  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 8.3  |      | 15.5  |      | 6.2  |      | 13.6  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 0.2  |      | 4.1   |      | 0.2  |      | 3.9   |      |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      | 9.1   |      |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      | A     |      |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| User approved pedestrian interval to be less than phase max green.                                 |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | SBTL  | WBTL  | NBTL  | EBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | Max   | C-Max | Max   |
| Maximum Split (s)      | 25    | 95    | 25    | 95    |
| Maximum Split (%)      | 20.8% | 79.2% | 20.8% | 79.2% |
| Minimum Split (s)      | 29.1  | 22.5  | 30.1  | 22.5  |
| Yellow Time (s)        | 3.6   | 4     | 3.6   | 4     |
| All-Red Time (s)       | 1.5   | 1.2   | 1.5   | 1.2   |
| Minimum Initial (s)    | 7     | 10    | 7     | 10    |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 8     | 7     |
| Flash Dont Walk (s)    | 17    | 7     | 17    | 8     |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 112   | 17    | 112   | 17    |
| End Time (s)           | 17    | 112   | 17    | 112   |
| Yield/Force Off (s)    | 11.9  | 106.8 | 11.9  | 106.8 |
| Yield/Force Off 170(s) | 114.9 | 99.8  | 114.9 | 98.8  |
| Local Start Time (s)   | 0     | 25    | 0     | 25    |
| Local Yield (s)        | 19.9  | 114.8 | 19.9  | 114.8 |
| Local Yield 170(s)     | 2.9   | 107.8 | 2.9   | 106.8 |

**Intersection Summary**

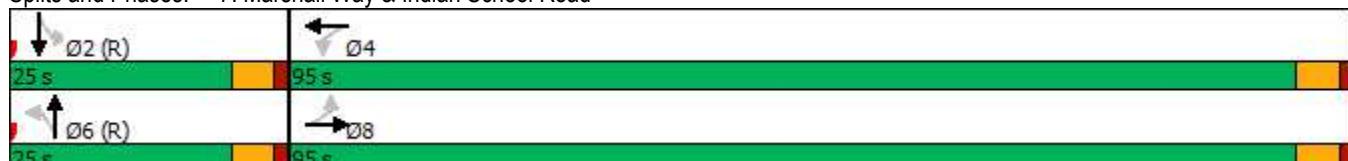
Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 55

Offset: 112 (93%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green

Splits and Phases: 7: Marshall Way &amp; Indian School Road



| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      | ↑     | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)   | 102  | 639  | 104   | 157  | 647  | 161  | 55    | 422  | 108  | 187  | 612  | 135  |
| Future Volume (veh/h)  | 102  | 639  | 104   | 157  | 647  | 161  | 55    | 422  | 108  | 187  | 612  | 135  |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      | No    |      | No   |      | No    |      | No   | No   |      | No   |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 111  | 695  | 113   | 171  | 703  | 175  | 60    | 459  | 117  | 203  | 665  | 147  |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 418  | 939  | 152   | 447  | 865  | 215  | 261   | 857  | 217  | 275  | 1084 | 483  |
| Arrive On Green  | 0.23 | 0.41 | 0.41  | 0.17 | 0.31 | 0.31 | 0.04  | 0.31 | 0.31 | 0.08 | 0.61 | 0.61 |
| Sat Flow, veh/h  | 1781 | 3060 | 497   | 1781 | 2819 | 702  | 1781  | 2809 | 711  | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h   | 111  | 403  | 405   | 171  | 443  | 435  | 60    | 289  | 287  | 203  | 665  | 147  |
| Grp Sat Flow(s), veh/h/ln  | 1781 | 1777 | 1781  | 1781 | 1777 | 1744 | 1781  | 1777 | 1742 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s  | 0.0  | 23.1 | 23.1  | 0.3  | 27.6 | 27.7 | 0.0   | 16.2 | 16.4 | 0.0  | 14.0 | 5.3  |
| Cycle Q Clear(g_c), s  | 0.0  | 23.1 | 23.1  | 0.3  | 27.6 | 27.7 | 0.0   | 16.2 | 16.4 | 0.0  | 14.0 | 5.3  |
| Prop In Lane   | 1.00 |      | 0.28  | 1.00 |      | 0.40 | 1.00  |      | 0.41 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 418  | 545  | 546   | 447  | 545  | 535  | 261   | 542  | 531  | 275  | 1084 | 483  |
| V/C Ratio(X)   | 0.27 | 0.74 | 0.74  | 0.38 | 0.81 | 0.81 | 0.23  | 0.53 | 0.54 | 0.74 | 0.61 | 0.30 |
| Avail Cap(c_a), veh/h  | 418  | 545  | 546   | 447  | 545  | 535  | 348   | 542  | 531  | 362  | 1084 | 483  |
| HCM Platoon Ratio  | 1.33 | 1.33 | 1.33  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 |
| Upstream Filter(l)   | 0.96 | 0.96 | 0.96  | 0.93 | 0.93 | 0.93 | 1.00  | 1.00 | 1.00 | 0.93 | 0.93 | 0.93 |
| Uniform Delay (d), s/veh   | 36.1 | 31.5 | 31.5  | 37.9 | 38.4 | 38.4 | 39.1  | 34.6 | 34.7 | 45.7 | 19.0 | 17.3 |
| Incr Delay (d2), s/veh   | 0.1  | 8.4  | 8.4   | 0.2  | 11.7 | 11.9 | 0.2   | 3.7  | 3.9  | 3.2  | 2.4  | 1.5  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.5  | 10.3 | 10.3  | 4.2  | 13.6 | 13.4 | 1.5   | 7.6  | 7.6  | 5.9  | 4.6  | 2.0  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 36.2 | 39.9 | 39.9  | 38.0 | 50.1 | 50.4 | 39.2  | 38.3 | 38.6 | 48.9 | 21.4 | 18.8 |
| LnGrp LOS  | D    | D    | D     | D    | D    | D    | D     | D    | D    | D    | C    | B    |
| Approach Vol, veh/h  | 919  |      |       |      | 1049 |      |       | 636  |      |      | 1015 |      |
| Approach Delay, s/veh  | 39.5 |      |       |      | 48.3 |      |       | 38.5 |      |      | 26.5 |      |
| Approach LOS   |      | D    |       |      |      | D    |       |      | D    |      | C    |      |
| Timer - Assigned Phs   | 1    | 2    | 3     | 4    | 5    | 6    | 7     | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 25.9 | 42.0 | 10.1  | 42.0 | 25.9 | 42.0 | 10.1  | 42.0 |      |      |      |      |
| Change Period (Y+Rc), s  | * 5  | 5.2  | * 5.1 | 5.4  | * 5  | 5.2  | * 5.1 | 5.4  |      |      |      |      |
| Max Green Setting (Gmax), s  | * 15 | 36.8 | * 11  | 36.6 | * 15 | 36.8 | * 11  | 36.6 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 2.3  | 25.1 | 2.0   | 16.0 | 2.0  | 29.7 | 2.0   | 18.4 |      |      |      |      |
| Green Ext Time (p_c), s  | 0.2  | 1.5  | 0.0   | 3.3  | 0.1  | 1.4  | 0.2   | 2.4  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      |       | 38.2 |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      |       | D    |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |

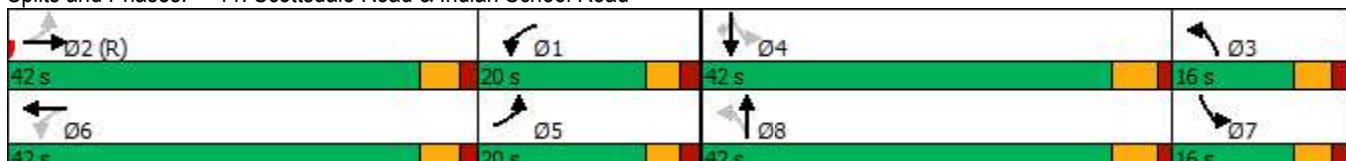


| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | WBL   | EBTL  | NBL   | SBTL  | EBL   | WBTL  | SBL   | NBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | Max   | None  | Max   |
| Maximum Split (s)      | 20    | 42    | 16    | 42    | 20    | 42    | 16    | 42    |
| Maximum Split (%)      | 16.7% | 35.0% | 13.3% | 35.0% | 16.7% | 35.0% | 13.3% | 35.0% |
| Minimum Split (s)      | 10    | 35.2  | 10.1  | 33.4  | 10    | 35.2  | 10.1  | 33.4  |
| Yellow Time (s)        | 3     | 3.6   | 3.3   | 4     | 3     | 3.6   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.6   | 1.8   | 1.4   | 2     | 1.6   | 1.8   | 1.4   |
| Minimum Initial (s)    | 5     | 10    | 5     | 10    | 5     | 10    | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 2     | 2     | 1     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 8     |       | 8     |       | 8     |       | 8     |
| Flash Dont Walk (s)    |       | 22    |       | 20    |       | 22    |       | 20    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 42    | 0     | 104   | 62    | 42    | 0     | 104   | 62    |
| End Time (s)           | 62    | 42    | 0     | 104   | 62    | 42    | 0     | 104   |
| Yield/Force Off (s)    | 57    | 36.8  | 114.9 | 98.6  | 57    | 36.8  | 114.9 | 98.6  |
| Yield/Force Off 170(s) | 57    | 14.8  | 114.9 | 78.6  | 57    | 14.8  | 114.9 | 78.6  |
| Local Start Time (s)   | 42    | 0     | 104   | 62    | 42    | 0     | 104   | 62    |
| Local Yield (s)        | 57    | 36.8  | 114.9 | 98.6  | 57    | 36.8  | 114.9 | 98.6  |
| Local Yield 170(s)     | 57    | 14.8  | 114.9 | 78.6  | 57    | 14.8  | 114.9 | 78.6  |

**Intersection Summary**

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 0 (0%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 11: Scottsdale Road &amp; Indian School Road



| Movement   | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|------|-------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑   |      | ↑    | ↑↑    |      |       | ↔    |      | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)   | 33    | 958  | 8    | 60   | 968   | 25   | 10    | 4    | 45   | 111  | 3    | 76   |
| Future Volume (veh/h)  | 33    | 958  | 8    | 60   | 968   | 25   | 10    | 4    | 45   | 111  | 3    | 76   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00 |       | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      |      | No   |       |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 36    | 1041 | 9    | 65   | 1052  | 27   | 11    | 4    | 49   | 121  | 3    | 83   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2    | 2     | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 283   | 2174 | 19   | 382  | 2132  | 55   | 37    | 31   | 107  | 182  | 4    | 528  |
| Arrive On Green  | 1.00  | 1.00 | 1.00 | 0.60 | 0.60  | 0.60 | 0.33  | 0.33 | 0.33 | 0.33 | 0.33 | 0.33 |
| Sat Flow, veh/h  | 523   | 3610 | 31   | 537  | 3540  | 91   | 5     | 93   | 320  | 369  | 11   | 1585 |
| Grp Volume(v), veh/h   | 36    | 512  | 538  | 65   | 528   | 551  | 64    | 0    | 0    | 124  | 0    | 83   |
| Grp Sat Flow(s), veh/h/ln  | 523   | 1777 | 1865 | 537  | 1777  | 1854 | 418   | 0    | 0    | 380  | 0    | 1585 |
| Q Serve(g_s), s  | 2.7   | 0.0  | 0.0  | 6.6  | 20.2  | 20.2 | 0.8   | 0.0  | 0.0  | 0.0  | 0.0  | 4.4  |
| Cycle Q Clear(g_c), s  | 23.7  | 0.0  | 0.0  | 7.1  | 20.2  | 20.2 | 40.0  | 0.0  | 0.0  | 39.3 | 0.0  | 4.4  |
| Prop In Lane   | 1.00  |      | 0.02 | 1.00 |       | 0.05 | 0.17  |      | 0.77 | 0.98 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 283   | 1070 | 1123 | 382  | 1070  | 1116 | 174   | 0    | 0    | 186  | 0    | 528  |
| V/C Ratio(X)   | 0.13  | 0.48 | 0.48 | 0.17 | 0.49  | 0.49 | 0.37  | 0.00 | 0.00 | 0.67 | 0.00 | 0.16 |
| Avail Cap(c_a), veh/h  | 283   | 1070 | 1123 | 382  | 1070  | 1116 | 175   | 0    | 0    | 186  | 0    | 528  |
| HCM Platoon Ratio  | 2.00  | 2.00 | 2.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.69  | 0.69 | 0.69 | 0.62 | 0.62  | 0.62 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh   | 3.5   | 0.0  | 0.0  | 11.0 | 13.5  | 13.5 | 31.6  | 0.0  | 0.0  | 39.7 | 0.0  | 28.2 |
| Incr Delay (d2), s/veh   | 0.6   | 1.1  | 1.0  | 0.6  | 1.0   | 1.0  | 0.5   | 0.0  | 0.0  | 7.2  | 0.0  | 0.1  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.2   | 0.3  | 0.3  | 0.8  | 7.9   | 8.3  | 1.3   | 0.0  | 0.0  | 4.0  | 0.0  | 1.7  |
| Unsig. Movement Delay, s/veh   |       |      |      |      |       |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 4.1   | 1.1  | 1.0  | 11.6 | 14.5  | 14.5 | 32.1  | 0.0  | 0.0  | 46.9 | 0.0  | 28.2 |
| LnGrp LOS  | A     | A    | A    | B    | B     | B    | C     | A    | A    | D    | A    | C    |
| Approach Vol, veh/h  | 1086  |      |      | 1144 |       |      | 64    |      |      | 207  |      |      |
| Approach Delay, s/veh  | 1.1   |      |      | 14.3 |       |      | 32.1  |      |      | 39.4 |      |      |
| Approach LOS   | A     |      |      | B    |       |      | C     |      |      | D    |      |      |
| Timer - Assigned Phs   | 2     |      | 4    |      | 6     |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 78.2  |      | 45.6 |      | 78.2  |      | 45.6  |      |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.4 |      | 5.6  |      | * 5.4 |      | * 5.6 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | * 70  |      | 39.4 |      | * 70  |      | * 40  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 25.7  |      | 41.3 |      | 22.2  |      | 42.0  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 5.2   |      | 0.0  |      | 5.8   |      | 0.0   |      |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |      |       |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      | 11.1 |      |       |      |       |      |      |      |      |      |
| HCM 6th LOS  |       |      | B    |      |       |      |       |      |      |      |      |      |
| <b>Notes</b>   |       |      |      |      |       |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |      |       |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | EBTL  | SBTL  | WBTL  | NBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | None  | Max   | None  |
| Maximum Split (s)      | 75    | 45    | 75    | 45    |
| Maximum Split (%)      | 62.5% | 37.5% | 62.5% | 37.5% |
| Minimum Split (s)      | 27.4  | 36.6  | 27.4  | 36    |
| Yellow Time (s)        | 4     | 3.6   | 4     | 3.6   |
| All-Red Time (s)       | 1.4   | 2     | 1.4   | 1.4   |
| Minimum Initial (s)    | 10    | 7     | 10    | 7     |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 7     | 7     |
| Flash Dont Walk (s)    | 15    | 24    | 15    | 24    |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 11    | 86    | 11    | 86    |
| End Time (s)           | 86    | 11    | 86    | 11    |
| Yield/Force Off (s)    | 80.6  | 5.4   | 80.6  | 6     |
| Yield/Force Off 170(s) | 65.6  | 101.4 | 65.6  | 102   |
| Local Start Time (s)   | 0     | 75    | 0     | 75    |
| Local Yield (s)        | 69.6  | 114.4 | 69.6  | 115   |
| Local Yield 170(s)     | 54.6  | 90.4  | 54.6  | 91    |

## Intersection Summary

|   |                      |
|---|----------------------|
| Cycle Length  | 120                  |
| Control Type  | Actuated-Coordinated |
| Natural Cycle   | 65                   |
| Offset: 11 (9%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 12: Buckboard Trail &amp; Indian School Road



| Movement   | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL  | SBT  | SBR  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| Lane Configurations  | ↑     | ↑↑↓   |       | ↑     | ↑↑    | ↑     | ↑     | ↑↑    | ↑     | ↑↑   | ↑↑↓  |      |
| Traffic Volume (veh/h)   | 81    | 1047  | 57    | 277   | 829   | 208   | 82    | 459   | 407   | 308  | 256  | 55   |
| Future Volume (veh/h)  | 81    | 1047  | 57    | 277   | 829   | 208   | 82    | 459   | 407   | 308  | 256  | 55   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |       |       | No    |       |       | No    |       |       | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 88    | 1138  | 62    | 301   | 901   | 226   | 89    | 499   | 442   | 335  | 278  | 60   |
| Peak Hour Factor   | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    |
| Cap, veh/h   | 332   | 1222  | 67    | 276   | 1267  | 565   | 114   | 767   | 342   | 481  | 848  | 180  |
| Arrive On Green  | 0.04  | 0.12  | 0.12  | 0.11  | 0.36  | 0.36  | 0.06  | 0.22  | 0.22  | 0.14 | 0.29 | 0.29 |
| Sat Flow, veh/h  | 1781  | 3427  | 187   | 1781  | 3554  | 1585  | 1781  | 3554  | 1585  | 3456 | 2916 | 620  |
| Grp Volume(v), veh/h   | 88    | 590   | 610   | 301   | 901   | 226   | 89    | 499   | 442   | 335  | 168  | 170  |
| Grp Sat Flow(s), veh/h/ln  | 1781  | 1777  | 1837  | 1781  | 1777  | 1585  | 1781  | 1777  | 1585  | 1728 | 1777 | 1759 |
| Q Serve(g_s), s  | 0.0   | 39.5  | 39.5  | 13.7  | 26.2  | 12.8  | 5.9   | 15.4  | 25.9  | 11.1 | 8.9  | 9.1  |
| Cycle Q Clear(g_c), s  | 0.0   | 39.5  | 39.5  | 13.7  | 26.2  | 12.8  | 5.9   | 15.4  | 25.9  | 11.1 | 8.9  | 9.1  |
| Prop In Lane   | 1.00  |       | 0.10  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00 |      | 0.35 |
| Lane Grp Cap(c), veh/h   | 332   | 634   | 655   | 276   | 1267  | 565   | 114   | 767   | 342   | 481  | 517  | 512  |
| V/C Ratio(X)   | 0.26  | 0.93  | 0.93  | 1.09  | 0.71  | 0.40  | 0.78  | 0.65  | 1.29  | 0.70 | 0.32 | 0.33 |
| Avail Cap(c_a), veh/h  | 332   | 634   | 655   | 276   | 1267  | 565   | 114   | 767   | 342   | 481  | 517  | 512  |
| HCM Platoon Ratio  | 0.33  | 0.33  | 0.33  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.93  | 0.93  | 0.93  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 44.6  | 51.5  | 51.5  | 51.3  | 33.3  | 29.0  | 55.3  | 42.9  | 47.0  | 49.2 | 33.3 | 33.4 |
| Incr Delay (d2), s/veh   | 0.1   | 21.1  | 20.8  | 80.3  | 3.4   | 2.1   | 26.0  | 4.3   | 151.6 | 3.7  | 1.7  | 1.7  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.5   | 22.5  | 23.2  | 14.3  | 11.7  | 5.2   | 3.5   | 7.1   | 24.4  | 5.0  | 4.0  | 4.1  |
| Unsig. Movement Delay, s/veh   |       |       |       |       |       |       |       |       |       |      |      |      |
| LnGrp Delay(d), s/veh  | 44.8  | 72.6  | 72.2  | 131.6 | 36.7  | 31.1  | 81.3  | 47.2  | 198.6 | 52.9 | 35.0 | 35.2 |
| LnGrp LOS  | D     | E     | E     | F     | D     | C     | F     | D     | F     | D    | C    | D    |
| Approach Vol, veh/h  | 1288  |       |       |       | 1428  |       |       | 1030  |       |      | 673  |      |
| Approach Delay, s/veh  | 70.5  |       |       |       | 55.8  |       |       | 115.1 |       |      | 44.0 |      |
| Approach LOS   |       | E     |       |       |       | E     |       |       | F     |      |      | D    |
| Timer - Assigned Phs   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |       |      |      |      |
| Phs Duration (G+Y+Rc), s   | 13.0  | 40.0  | 19.0  | 48.0  | 22.0  | 31.0  | 19.0  | 48.0  |       |      |      |      |
| Change Period (Y+Rc), s  | * 5.3 | * 5.1 | * 5.3 | * 5.2 | * 5.3 | * 5.1 | * 5.3 | * 5.2 |       |      |      |      |
| Max Green Setting (Gmax), s  | * 7.7 | * 35  | * 14  | * 43  | * 17  | * 26  | * 14  | * 43  |       |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 7.9   | 11.1  | 2.0   | 28.2  | 13.1  | 27.9  | 15.7  | 41.5  |       |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 0.3   | 0.1   | 1.1   | 0.3   | 0.0   | 0.0   | 0.3   |       |      |      |      |
| <b>Intersection Summary</b>  |       |       |       |       |       |       |       |       |       |      |      |      |
| HCM 6th Ctrl Delay   |       |       | 72.1  |       |       |       |       |       |       |      |      |      |
| HCM 6th LOS  |       |       | E     |       |       |       |       |       |       |      |      |      |
| <b>Notes</b>   |       |       |       |       |       |       |       |       |       |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |       |       |       |       |       |       |       |       |      |      |      |

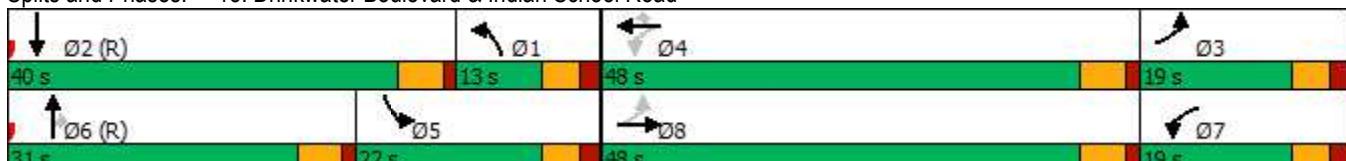


| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBTL  | SBL   | NBT   | WBL   | EBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 13    | 40    | 19    | 48    | 22    | 31    | 19    | 48    |
| Maximum Split (%)      | 10.8% | 33.3% | 15.8% | 40.0% | 18.3% | 25.8% | 15.8% | 40.0% |
| Minimum Split (s)      | 10.3  | 29.1  | 10.3  | 28.2  | 10.3  | 29.1  | 10.3  | 30.2  |
| Yellow Time (s)        | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.1   | 2     | 1.2   | 2     | 1.1   | 2     | 1.2   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 20    |       | 19    |       | 20    |       | 21    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 58    | 18    | 119   | 71    | 49    | 18    | 119   | 71    |
| End Time (s)           | 71    | 58    | 18    | 119   | 71    | 49    | 18    | 119   |
| Yield/Force Off (s)    | 65.7  | 52.9  | 12.7  | 113.8 | 65.7  | 43.9  | 12.7  | 113.8 |
| Yield/Force Off 170(s) | 65.7  | 32.9  | 12.7  | 94.8  | 65.7  | 23.9  | 12.7  | 92.8  |
| Local Start Time (s)   | 40    | 0     | 101   | 53    | 31    | 0     | 101   | 53    |
| Local Yield (s)        | 47.7  | 34.9  | 114.7 | 95.8  | 47.7  | 25.9  | 114.7 | 95.8  |
| Local Yield 170(s)     | 47.7  | 14.9  | 114.7 | 76.8  | 47.7  | 5.9   | 114.7 | 74.8  |

**Intersection Summary**

|   |                      |
|---|----------------------|
| Cycle Length  | 120                  |
| Control Type  | Actuated-Coordinated |
| Natural Cycle   | 110                  |
| Offset: 18 (15%), Referenced to phase 2:SBT and 6:NBT, Start of Green |                      |

Splits and Phases: 13: Drinkwater Boulevard &amp; Indian School Road





## Appendix G – Trip Generation

G



The Triangle  
Existing Use

Trip Generation Calculations - 10th Edition

Completed: KAS 5/18/2020  
Checked: SS 6/24/2020

Howard Johnson by Wyndham Scottsdale Old Town

| Motel    |          |     |       |                    |      |       |              |      |       |                |      |       |         | Motel |     |                |    |     |              |    |     |         |    |     |       |    |     |     |  |  |
|----------|----------|-----|-------|--------------------|------|-------|--------------|------|-------|----------------|------|-------|---------|-------|-----|----------------|----|-----|--------------|----|-----|---------|----|-----|-------|----|-----|-----|--|--|
| Land Use | ITE Code | Qty | Unit  | Weekday            |      |       | AM Peak Hour |      |       | PM Peak Hour   |      |       | Weekday |       |     | AM Peak Hour   |    |     | PM Peak Hour |    |     |         |    |     |       |    |     |     |  |  |
|          |          |     |       | Rate               | % In | % Out | Rate         | % In | % Out | Rate           | % In | % Out | Total   | In    | Out | Total          | In | Out | Total        | In | Out | Total   | In | Out | Total | In | Out |     |  |  |
| Motel    | 320      | 65  | Rooms | 3.35               | 50%  | 50%   | 0.38         | 37%  | 63%   | 0.38           | 54%  | 46%   | 218     | 109   | 109 | 25             | 9  | 16  | 25           | 14 | 11  | Average |    |     |       |    |     |     |  |  |
| Motel    | 320      | 65  | Rooms | 1.65               | 50%  | 50%   | 0.08         | 37%  | 63%   | 0.06           | 54%  | 46%   | 107     | 54    | 53  | 5              | 2  | 3   | 4            | 2  | 2   | Minimum |    |     |       |    |     |     |  |  |
| Motel    | 320      | 65  | Rooms | 4.38               | 50%  | 50%   | 0.97         | 37%  | 63%   | 0.83           | 54%  | 46%   | 285     | 143   | 142 | 63             | 23 | 40  | 54           | 29 | 25  | Maximum |    |     |       |    |     |     |  |  |
| Land Use | ITE Code | Qty | Unit  | Weekday            |      |       | AM Peak Hour |      |       | PM Peak Hour   |      |       | Weekday |       |     | AM Peak Hour   |    |     | PM Peak Hour |    |     |         |    |     |       |    |     |     |  |  |
| Motel    | 320      | 65  | Rooms | Equation           |      |       | % In         |      |       | Equation       |      |       | % In    |       |     | Equation       |    |     | % In         |    |     | Total   |    |     | In    |    |     | Out |  |  |
| Motel    | 320      | 65  | Rooms | T=3.62(X)-29.43    |      |       | 50%          |      |       | T=0.36(X)+2.56 |      |       | 37%     |       |     | T=0.35(X)+3.53 |    |     | 54%          |    |     | 206     |    |     | 103   |    |     | 103 |  |  |
|          |          |     |       |                    |      |       |              |      |       |                |      |       |         |       |     |                |    |     |              |    |     |         |    |     |       |    |     |     |  |  |
| Motel    |          |     |       | Standard Deviation |      |       | 0.87         |      |       | 0.17           |      |       | 0.19    |       |     |                |    |     |              |    |     |         |    |     |       |    |     |     |  |  |
|          |          |     |       | Number of Studies  |      |       | 6            |      |       | 16             |      |       | 19      |       |     |                |    |     |              |    |     |         |    |     |       |    |     |     |  |  |
|          |          |     |       | Average Size       |      |       | 109          |      |       | 119            |      |       | 115     |       |     |                |    |     |              |    |     |         |    |     |       |    |     |     |  |  |
|          |          |     |       | R <sup>2</sup>     |      |       | 0.96         |      |       | 0.73           |      |       | 0.60    |       |     |                |    |     |              |    |     |         |    |     |       |    |     |     |  |  |

Haver Building Business Complex/Celebrations in Paper

| Specialty Retail Center |          |       |             |                    |      |       |              |      |       |              |      |       |         | Specialty Retail Center |     |                 |     |     |              |    |     |         |    |     |       |    |     |      |  |  |
|-------------------------|----------|-------|-------------|--------------------|------|-------|--------------|------|-------|--------------|------|-------|---------|-------------------------|-----|-----------------|-----|-----|--------------|----|-----|---------|----|-----|-------|----|-----|------|--|--|
| Land Use                | ITE Code | Qty   | Unit        | Weekday            |      |       | AM Peak Hour |      |       | PM Peak Hour |      |       | Weekday |                         |     | AM Peak Hour    |     |     | PM Peak Hour |    |     |         |    |     |       |    |     |      |  |  |
|                         |          |       |             | Rate               | % In | % Out | Rate         | % In | % Out | Rate         | % In | % Out | Total   | In                      | Out | Total           | In  | Out | Total        | In | Out | Total   | In | Out | Total | In | Out |      |  |  |
| Specialty Retail Center | 826      | 18.03 | 1000 SF GFA | 44.32              | 50%  | 50%   | N/A          | N/A  | N/A   | 2.71         | 44%  | 56%   | 800     | 400                     | 400 | N/A             | N/A | N/A | 49           | 22 | 27  | Average |    |     |       |    |     |      |  |  |
| Specialty Retail Center | 826      | 18.03 | 1000 SF GFA | 21.3               | 50%  | 50%   | N/A          | N/A  | N/A   | 2.03         | 44%  | 56%   | 385     | 193                     | 192 | N/A             | N/A | N/A | 37           | 17 | 20  | Minimum |    |     |       |    |     |      |  |  |
| Specialty Retail Center | 826      | 18.03 | 1000 SF GFA | 64.21              | 50%  | 50%   | N/A          | N/A  | N/A   | 5.16         | 44%  | 56%   | 1,158   | 579                     | 579 | N/A             | N/A | N/A | 94           | 42 | 52  | Maximum |    |     |       |    |     |      |  |  |
| Land Use                | ITE Code | Qty   | Unit        | Weekday            |      |       | AM Peak Hour |      |       | PM Peak Hour |      |       | Weekday |                         |     | AM Peak Hour    |     |     | PM Peak Hour |    |     |         |    |     |       |    |     |      |  |  |
| Specialty Retail Center | 826      | 18.03 | 1000 SF GFA | Equation           |      |       | % In         |      |       | Equation     |      |       | % In    |                         |     | Equation        |     |     | % In         |    |     | Total   |    |     | In    |    |     | Out  |  |  |
| Specialty Retail Center | 826      | 18.03 | 1000 SF GFA | T=42.78(X)+37.66   |      |       | 50%          |      |       | N/A          |      |       | N/A     |                         |     | T=2.40(X)+21.48 |     |     | 44%          |    |     | 810     |    |     | 405   |    |     | 405  |  |  |
|                         |          |       |             |                    |      |       |              |      |       |              |      |       |         |                         |     |                 |     |     |              |    |     |         |    |     |       |    |     |      |  |  |
| Drinking Place          |          |       |             | Standard Deviation |      |       | 15.52        |      |       | -            |      |       | 1.83    |                         |     |                 |     |     |              |    |     |         |    |     |       |    |     |      |  |  |
|                         |          |       |             | Number of Studies  |      |       | 4            |      |       | -            |      |       | 5       |                         |     |                 |     |     |              |    |     |         |    |     |       |    |     |      |  |  |
|                         |          |       |             | Average Size       |      |       | 25           |      |       | -            |      |       | 69      |                         |     |                 |     |     |              |    |     |         |    |     |       |    |     |      |  |  |
|                         |          |       |             | R <sup>2</sup>     |      |       | 0.69         |      |       | -            |      |       | 0.96    |                         |     | N/A             |     |     | -            |    |     | N/A     |    |     | -     |    |     | 0.96 |  |  |

The Venue (Billiards Room, Ballroom, Rooftop Deck, Observation Deck)/Virtue Vice (1st Floor, 2nd Floor)/Scottsdale Comedy Spot

| Drinking Place                      |          |      |             |          |      |       |              |      |       |              |      |       |         | Drinking Place |       |              |     |     |              |     |     |         |    |     |       |    |     |
|-------------------------------------|----------|------|-------------|----------|------|-------|--------------|------|-------|--------------|------|-------|---------|----------------|-------|--------------|-----|-----|--------------|-----|-----|---------|----|-----|-------|----|-----|
| Land Use                            | ITE Code | Qty  | Unit        | Weekday  |      |       | AM Peak Hour |      |       | PM Peak Hour |      |       | Weekday |                |       | AM Peak Hour |     |     | PM Peak Hour |     |     |         |    |     |       |    |     |
|                                     |          |      |             | Rate     | % In | % Out | Rate         | % In | % Out | Rate         | % In | % Out | Total   | In             | Out   | Total        | In  | Out | Total        | In  | Out | Total   | In | Out | Total | In | Out |
| High-Turnover (Sit-Down) Restaurant | 932      | 5.02 | 1000 SF GFA | 112.18   | 50%  | 50%   | 9.94         | 55%  | 45%   | 9.77         | 62%  | 38%   | 563     | 282            | 281   | 50           | 28  | 22  | 49           | 30  | 19  | Average |    |     |       |    |     |
| High-Turnover (Sit-Down) Restaurant | 932      | 5.02 | 1000 SF GFA | 13.04    | 50%  | 50%   | 0.76         | 55%  | 45%   | 0.92         | 62%  | 38%   | 65      | 33             | 32    | 4            | 2   | 2   | 5            | 3   | 2   | Minimum |    |     |       |    |     |
| High-Turnover (Sit-Down) Restaurant | 932      | 5.02 | 1000 SF GFA | 742.41   | 50%  | 50%   | 102.39       | 55%  | 45%   | 62.00        | 62%  | 38%   | 3,725   | 1,863          | 1,862 | 514          | 283 | 231 | 311          | 193 | 118 | Maximum |    |     |       |    |     |
| Land Use                            | ITE Code | Qty  | Unit        | Weekday  |      |       | AM Peak Hour |      |       | PM Peak Hour |      |       | Weekday |                |       | AM Peak Hour |     |     | PM Peak Hour |     |     |         |    |     |       |    |     |
| High-Turnover (Sit-Down) Restaurant | 932      | 5.02 | 1000 SF GFA | Equation |      |       |              |      |       |              |      |       |         |                |       |              |     |     |              |     |     |         |    |     |       |    |     |



The Triangle  
Existing Zoning

Completed: KAS 5/5/2020  
Checked: GT 5/5/2020

Trip Generation Calculations - 10th Edition

Existing Zoning - 0.8 FAR Shopping Center

| Sub-Shopping Center |          |        |             |                        |       |       |                    |      |       | Sub-Shopping Center    |      |       |         |        |        |              |       |     |              |     |       |  |
|---------------------|----------|--------|-------------|------------------------|-------|-------|--------------------|------|-------|------------------------|------|-------|---------|--------|--------|--------------|-------|-----|--------------|-----|-------|--|
| Land Use            | ITE Code | Qty    | Unit        | Weekday                |       |       | AM Peak Hour       |      |       | PM Peak Hour           |      |       | Weekday |        |        | AM Peak Hour |       |     | PM Peak Hour |     |       |  |
|                     |          |        |             | Rate                   | % In  | % Out | Rate               | % In | % Out | Rate                   | % In | % Out | Total   | In     | Out    | Total        | In    | Out | Total        | In  | Out   |  |
| Shopping Center     | 820      | 108.81 | 1000 SF GLA | 37.75                  | 50%   | 50%   | 0.94               | 62%  | 38%   | 3.81                   | 48%  | 52%   | 4,108   | 2,054  | 2,054  | 102          | 64    | 38  | 415          | 199 | 216   |  |
| Shopping Center     | 820      | 108.81 | 1000 SF GLA | 7.42                   | 50%   | 50%   | 0.18               | 62%  | 38%   | 0.74                   | 48%  | 52%   | 807     | 404    | 403    | 20           | 13    | 7   | 81           | 39  | 42    |  |
| Shopping Center     | 820      | 108.81 | 1000 SF GLA | 207.98                 | 50%   | 50%   | 23.74              | 62%  | 38%   | 18.69                  | 48%  | 52%   | 22,630  | 11,316 | 11,314 | 2,583        | 1,602 | 981 | 2,034        | 977 | 1,057 |  |
| Land Use            | ITE Code | Qty    | Unit        | Weekday                |       |       | AM Peak Hour       |      |       | PM Peak Hour           |      |       | Weekday |        |        | AM Peak Hour |       |     | PM Peak Hour |     |       |  |
|                     |          |        |             | Equation               | % In  | % Out | Equation           | % In | % Out | Equation               | % In | % Out | Total   | In     | Out    | Total        | In    | Out | Total        | In  | Out   |  |
| Shopping Center     | 820      | 108.81 | 1000 SF GLA | $Ln(T)=0.68Ln(X)+5.57$ | 50%   | 50%   | $T=0.50(X)+151.78$ | 62%  | 38%   | $Ln(T)=0.74Ln(X)+2.89$ | 48%  | 52%   | 6,368   | 3,184  | 3,184  | 207          | 129   | 78  | 579          | 278 | 301   |  |
| Shopping Center     |          |        |             | Standard Deviation     | 16.41 |       | 0.87               |      |       | 2.04                   |      |       |         |        |        |              |       |     |              |     |       |  |
|                     |          |        |             | Number of Studies      | 147   |       | 84                 |      |       | 261                    |      |       |         |        |        |              |       |     |              |     |       |  |
|                     |          |        |             | Average Size           | 453   |       | 351                |      |       | 327                    |      |       |         |        |        |              |       |     |              |     |       |  |
|                     |          |        |             | R <sup>2</sup>         | 0.76  |       | 0.50               |      |       | 0.82                   |      |       |         |        |        |              |       |     |              |     |       |  |

Existing Zoning - 0.4 FAR Shopping + Restaurants

| Sub-Shopping Center |          |       |             |                        |       |       |                    |      |       | Sub-Shopping Center    |      |       |         |       |       |              |     |     |              |     |     |  |  |
|---------------------|----------|-------|-------------|------------------------|-------|-------|--------------------|------|-------|------------------------|------|-------|---------|-------|-------|--------------|-----|-----|--------------|-----|-----|--|--|
| Land Use            | ITE Code | Qty   | Unit        | Weekday                |       |       | AM Peak Hour       |      |       | PM Peak Hour           |      |       | Weekday |       |       | AM Peak Hour |     |     | PM Peak Hour |     |     |  |  |
|                     |          |       |             | Rate                   | % In  | % Out | Rate               | % In | % Out | Rate                   | % In | % Out | Total   | In    | Out   | Total        | In  | Out | Total        | In  | Out |  |  |
| Shopping Center     | 820      | 54.40 | 1000 SF GLA | 37.75                  | 50%   | 50%   | 0.94               | 62%  | 38%   | 3.81                   | 48%  | 52%   | 2,054   | 1,027 | 1,027 | 51           | 32  | 19  | 207          | 100 | 107 |  |  |
| Shopping Center     | 820      | 54.40 | 1000 SF GLA | 7.42                   | 50%   | 50%   | 0.18               | 62%  | 38%   | 0.74                   | 48%  | 52%   | 404     | 202   | 202   | 10           | 7   | 3   | 40           | 20  | 20  |  |  |
| Shopping Center     | 820      | 54.40 | 1000 SF GLA | 207.98                 | 50%   | 50%   | 23.74              | 62%  | 38%   | 18.69                  | 48%  | 52%   | 11,314  | 5,658 | 5,656 | 1,291        | 801 | 490 | 1,017        | 489 | 528 |  |  |
| Land Use            | ITE Code | Qty   | Unit        | Weekday                |       |       | AM Peak Hour       |      |       | PM Peak Hour           |      |       | Weekday |       |       | AM Peak Hour |     |     | PM Peak Hour |     |     |  |  |
|                     |          |       |             | Equation               | % In  | % Out | Equation           | % In | % Out | Equation               | % In | % Out | Total   | In    | Out   | Total        | In  | Out | Total        | In  | Out |  |  |
| Shopping Center     | 820      | 54.40 | 1000 SF GLA | $Ln(T)=0.68Ln(X)+5.57$ | 50%   | 50%   | $T=0.50(X)+151.78$ | 62%  | 38%   | $Ln(T)=0.74Ln(X)+2.89$ | 48%  | 52%   | 3,974   | 1,987 | 1,987 | 179          | 111 | 68  | 347          | 167 | 180 |  |  |
| Shopping Center     |          |       |             | Standard Deviation     | 16.41 |       | 0.87               |      |       | 2.04                   |      |       |         |       |       |              |     |     |              |     |     |  |  |
|                     |          |       |             | Number of Studies      | 147   |       | 84                 |      |       | 261                    |      |       |         |       |       |              |     |     |              |     |     |  |  |
|                     |          |       |             | Average Size           | 453   |       | 351                |      |       | 327                    |      |       |         |       |       |              |     |     |              |     |     |  |  |
|                     |          |       |             | R <sup>2</sup>         | 0.76  |       | 0.50               |      |       | 0.82                   |      |       |         |       |       |              |     |     |              |     |     |  |  |

932 High-Turnover (Sit-Down) Restaurant

| High-Turnover (Sit-Down) Restaurant |          |     |             |                    |       |       |              |      |       | High-Turnover (Sit-Down) Restaurant |      |       |         |       |       |              |     |     |              |     |     |     |  |
|-------------------------------------|----------|-----|-------------|--------------------|-------|-------|--------------|------|-------|-------------------------------------|------|-------|---------|-------|-------|--------------|-----|-----|--------------|-----|-----|-----|--|
| Land Use                            | ITE Code | Qty | Unit        | Weekday            |       |       | AM Peak Hour |      |       | PM Peak Hour                        |      |       | Weekday |       |       | AM Peak Hour |     |     | PM Peak Hour |     |     |     |  |
|                                     |          |     |             | Rate               | % In  | % Out | Rate         | % In | % Out | Rate                                | % In | % Out | Total   | In    | Out   | Total        | In  | Out | Total        | In  | Out |     |  |
| High-Turnover (Sit-Down) Restaurant | 932      | 12  | 1000 SF GFA | 112.18             | 50%   | 50%   | 9.94         | 55%  | 45%   | 9.77                                | 62%  | 38%   | 1,346   | 673   | 673   | 119          | 65  | 54  | 117          | 73  | 44  |     |  |
| High-Turnover (Sit-Down) Restaurant | 932      | 12  | 1000 SF GFA | 13.04              | 50%   | 50%   | 0.76         | 55%  | 45%   | 0.92                                | 62%  | 38%   | 156     | 78    | 78    | 9            | 5   | 4   | 11           | 7   | 4   |     |  |
| High-Turnover (Sit-Down) Restaurant | 932      | 12  | 1000 SF GFA | 742.41             | 50%   | 50%   | 102.39       | 55%  | 45%   | 62.00                               | 62%  | 38%   | 8,909   | 4,455 | 4,454 | 1,229        | 676 | 553 | 744          | 461 | 283 |     |  |
| Land Use                            | ITE Code | Qty | Unit        | Weekday            |       |       | AM Peak Hour |      |       | PM Peak Hour                        |      |       | Weekday |       |       | AM Peak Hour |     |     | PM Peak Hour |     |     |     |  |
|                                     |          |     |             | Equation           | % In  | % Out | Equation     | % In | % Out | Equation                            | % In | % Out | Total   | In    | Out   | Total        | In  | Out | Total        | In  | Out |     |  |
| High-Turnover (Sit-Down) Restaurant | 932      | 12  | 1000 SF GFA | N/A                | N/A   | N/A   | N/A          | N/A  | N/A   | N/A                                 | N/A  | N/A   | N/A     | N/A   | N/A   | N/A          | N/A | N/A | N/A          | N/A | N/A | N/A |  |
| High-Turnover (Sit-Down) Restaurant |          |     |             | Standard Deviation | 72.51 |       | 11.33        |      |       | 7.37                                |      |       |         |       |       |              |     |     |              |     |     |     |  |
|                                     |          |     |             | Number of Studies  | 50    |       | 39           |      |       | 107                                 |      |       |         |       |       |              |     |     |              |     |     |     |  |
|                                     |          |     |             | Average Size       | 5     |       | 5            |      |       | 6                                   |      |       |         |       |       |              |     |     |              |     |     |     |  |
|                                     |          |     |             | R <sup>2</sup>     | N/A   |       | N/A          |      |       | N/A                                 |      |       |         |       |       |              |     |     |              |     |     |     |  |



The Triangle  
Proposed Development

Completed: KAS 5/15/2020  
Checked: GT 5/15/2020

Trip Generation Calculations - 10th Edition

| 932 High-Turnover (Sit-Down) Restaurant |          |     |             |          |      |       |              |      |       |              |      |       |         |      |      |              |     |     |
|---|----------|-----|-------------|----------|------|-------|--------------|------|-------|--------------|------|-------|---------|------|------|--------------|-----|-----|
| Land Use                                | ITE Code | Qty | Unit        | Weekday  |      |       | AM Peak Hour |      |       | PM Peak Hour |      |       | Weekday |      |      | AM Peak Hour |     |     |
|   |          |     |             | Rate     | % In | % Out | Rate         | % In | % Out | Rate         | % In | % Out | Total   | In   | Out  | Total        | In  | Out |
| High-Turnover (Sit-Down) Restaurant     | 932      | 4   | 1000 SF GFA | 112.18   | 50%  | 50%   | 9.94         | 55%  | 45%   | 9.77         | 62%  | 38%   | 449     | 225  | 224  | 40           | 22  | 18  |
| High-Turnover (Sit-Down) Restaurant     | 932      | 4   | 1000 SF GFA | 13.04    | 50%  | 50%   | 0.76         | 55%  | 45%   | 0.92         | 62%  | 38%   | 52      | 26   | 26   | 3            | 2   | 1   |
| High-Turnover (Sit-Down) Restaurant     | 932      | 4   | 1000 SF GFA | 742.41   | 50%  | 50%   | 102.39       | 55%  | 45%   | 62           | 62%  | 38%   | 2,970   | 1485 | 1485 | 410          | 226 | 184 |
| Land Use                                | ITE Code | Qty | Unit        | Weekday  |      |       | AM Peak Hour |      |       | PM Peak Hour |      |       | Weekday |      |      | AM Peak Hour |     |     |
|   |          |     |             | Equation | % In | % Out | Equation     | % In | % Out | Equation     | % In | % Out | Total   | In   | Out  | Total        | In  | Out |
| High-Turnover (Sit-Down) Restaurant     | 932      | 4   | 1000 SF GFA | N/A      | N/A  | N/A   | N/A          | N/A  | N/A   | N/A          | N/A  | N/A   | N/A     | N/A  | N/A  | N/A          | N/A | N/A |

Average  
Minimum  
Maximum  
Equation

|                                     |                    |       |  |       |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------|--------------------|-------|--|-------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|
|                                     | Standard Deviation | 72.51 |  | 11.33 |  | 7.37 |  |  |  |  |  |  |  |  |  |  |  |  |
| High-Turnover (Sit-Down) Restaurant | Number of Studies  | 50    |  | 39    |  | 107  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                     | Average Size       | 5     |  | 5     |  | 6    |  |  |  |  |  |  |  |  |  |  |  |  |
|                                     | R <sup>2</sup>     | N/A   |  | N/A   |  | N/A  |  |  |  |  |  |  |  |  |  |  |  |  |

| 221 Multifamily Housing (Mid-Rise)<br>(Three to Ten Levels) |          |     |                |                |      |       |                      |      |       |                      |      |       |         |      |      |              |    |     |
|---|----------|-----|----------------|----------------|------|-------|----------------------|------|-------|----------------------|------|-------|---------|------|------|--------------|----|-----|
| Land Use  | ITE Code | Qty | Unit           | Weekday        |      |       | AM Peak Hour         |      |       | PM Peak Hour         |      |       | Weekday |      |      | AM Peak Hour |    |     |
|   |          |     |                | Rate           | % In | % Out | Rate                 | % In | % Out | Rate                 | % In | % Out | Total   | In   | Out  | Total        | In | Out |
| Multifamily Housing (Mid-Rise)                              | 221      | 230 | Dwelling Units | 5.44           | 50%  | 50%   | 0.36                 | 26%  | 74%   | 0.44                 | 61%  | 39%   | 1,251   | 626  | 625  | 83           | 22 | 61  |
| Multifamily Housing (Mid-Rise)                              | 221      | 230 | Dwelling Units | 1.27           | 50%  | 50%   | 0.06                 | 26%  | 74%   | 0.15                 | 61%  | 39%   | 292     | 146  | 146  | 14           | 4  | 10  |
| Multifamily Housing (Mid-Rise)                              | 221      | 230 | Dwelling Units | 12.50          | 50%  | 50%   | 1.61                 | 26%  | 74%   | 1.11                 | 61%  | 39%   | 2,875   | 1438 | 1437 | 370          | 96 | 274 |
| Land Use  | ITE Code | Qty | Unit           | Weekday        |      |       | AM Peak Hour         |      |       | PM Peak Hour         |      |       | Weekday |      |      | AM Peak Hour |    |     |
|   |          |     |                | Equation       | % In | % Out | Equation             | % In | % Out | Equation             | % In | % Out | Total   | In   | Out  | Total        | In | Out |
| Multifamily Housing (Mid-Rise)                              | 221      | 230 | Dwelling Units | T=5.45(X)-1.75 | 50%  | 50%   | Ln(T)=0.98Ln(X)-0.98 | 26%  | 74%   | Ln(T)=0.96Ln(X)-0.63 | 61%  | 39%   | 1,252   | 626  | 626  | 77           | 20 | 57  |

Average  
Minimum  
Maximum  
Equation

|                                |                    |      |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------|--------------------|------|--|------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|
|                                | Standard Deviation | 2.03 |  | 0.19 |  | 0.19 |  |  |  |  |  |  |  |  |  |  |  |  |
| Multifamily Housing (Mid-Rise) | Number of Studies  | 27   |  | 53   |  | 60   |  |  |  |  |  |  |  |  |  |  |  |  |
|                                | Average Size       | 205  |  | 207  |  | 208  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                | R <sup>2</sup>     | 0.77 |  | 0.67 |  | 0.72 |  |  |  |  |  |  |  |  |  |  |  |  |

| 310 Hotel |          |     |       |                   |      |       |                |      |       |                 |      |       |         |     |     |              |    |     |
|-----------|----------|-----|-------|-------------------|------|-------|----------------|------|-------|-----------------|------|-------|---------|-----|-----|--------------|----|-----|
| Land Use  | ITE Code | Qty | Unit  | Weekday           |      |       | AM Peak Hour   |      |       | PM Peak Hour    |      |       | Weekday |     |     | AM Peak Hour |    |     |
|           |          |     |       | Rate              | % In | % Out | Rate           | % In | % Out | Rate            | % In | % Out | Total   | In  | Out | Total        | In | Out |
| Hotel     | 310      | 168 | Rooms | 8.36              | 50%  | 50%   | 0.47           | 59%  | 41%   | 0.6             | 51%  | 49%   | 1,405   | 703 | 702 | 79           | 47 | 32  |
| Hotel     | 310      | 168 | Rooms | 5.31              | 50%  | 50%   | 0.2            | 59%  | 41%   | 0.26            | 51%  | 49%   | 893     | 447 | 446 | 34           | 21 | 13  |
| Hotel     | 310      | 168 | Rooms | 9.53              | 50%  | 50%   | 0.84           | 59%  | 41%   | 1.06            | 51%  | 49%   | 1,602   | 801 | 801 | 142          | 84 | 58  |
| Land Use  | ITE Code | Qty | Unit  | Weekday           |      |       | AM Peak Hour   |      |       | PM Peak Hour    |      |       | Weekday |     |     | AM Peak Hour |    |     |
|           |          |     |       | Equation          | % In | % Out | Equation       | % In | % Out | Equation        | % In | % Out | Total   | In  | Out | Total        | In | Out |
| Hotel     | 310      | 168 | Rooms | T=11.29(X)-426.97 | 50%  | 50%   | T=0.50(X)-5.34 | 59%  | 41%   | T=0.75(X)-26.02 | 51%  | 49%   | 1,470   | 735 | 735 | 79           | 47 | 32  |

Average  
Minimum  
Maximum  
Equation

|       |                    |      |  |      |  |      |  |  |  |  |  |  |  |  |  |  |  |  |
|-------|--------------------|------|--|------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|
|       | Standard Deviation | 1.86 |  | 0.14 |  | 0.22 |  |  |  |  |  |  |  |  |  |  |  |  |
| Hotel | Number of Studies  | 6    |  | 25   |  | 28   |  |  |  |  |  |  |  |  |  |  |  |  |
|       | Average Size       | 146  |  | 178  |  | 183  |  |  |  |  |  |  |  |  |  |  |  |  |
|       | R <sup>2</sup>     | 0.92 |  | 0.85 |  | 0.80 |  |  |  |  |  |  |  |  |  |  |  |  |

# YOUR VISION YOUR VENUE



## Old Town Scottsdale CORPORATE & PRIVATE EVENT DESTINATION



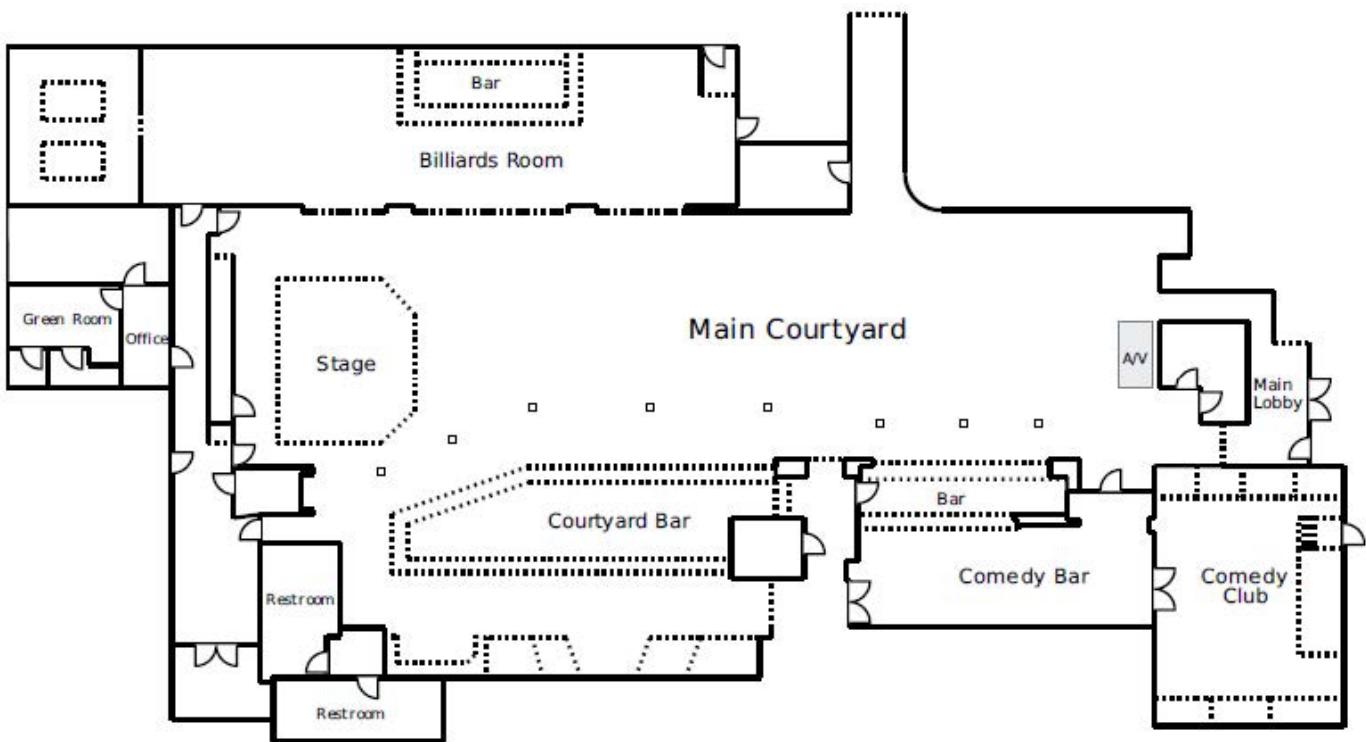
- 38,000 square foot, 4 story premier event Venue located in the heart of Downtown “Old Town” Scottsdale
- 9 unique and flexible event spaces providing the ideal setting for all sized groups up to a 2,000 guest buyout
- Beautiful rooftop lounge and bar overlooking Scottsdale and surrounding mountains
- Dedicated Event Coordinator to support flawless event delivery
- Full service kitchen, award winning Chef and culinary team
- In-house tables, chairs, linens, and service staff
- State-of-the-art audio/visual capabilities including premium audio, video production, and lighting
- In-house Wifi available with secure network access
- 14 customizable flat screen TVs
- Large built-in stage with plug-and-play technology
- The area’s only retractable roof, offering an event setting unlike any other!



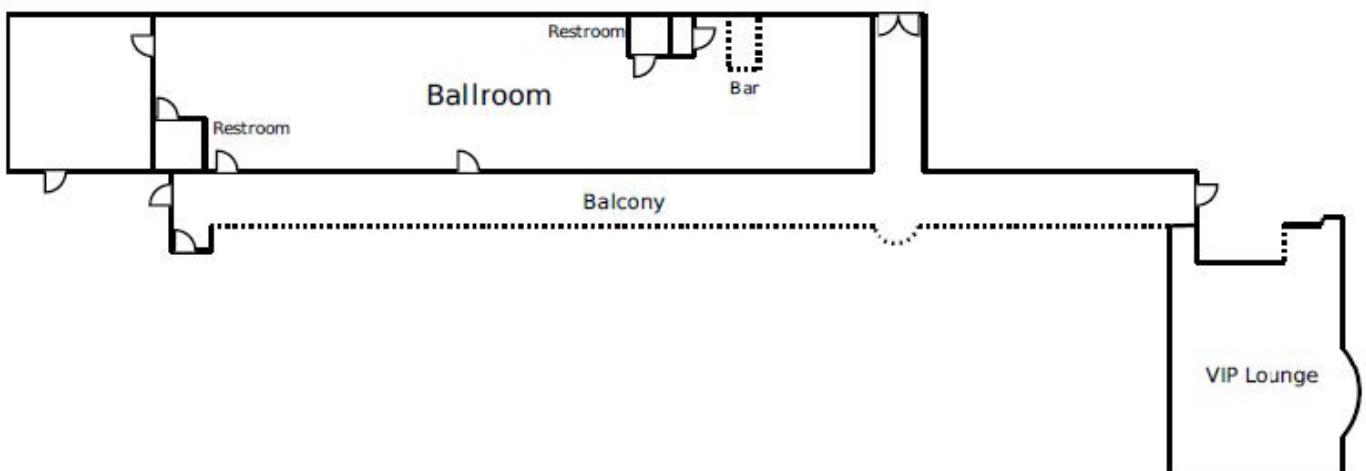
**THE VENUE**  
SCOTTSDALE

# Floorplans

First Floor



Second Floor



# Dimensions & Capacities

| Room Name      | Dimensions (ft) | Total Sq Ft | Theater | Schoolroom | Reception | Banquet | Existing |
|----------------|-----------------|-------------|---------|------------|-----------|---------|----------|
| <b>Level 1</b> |                 |             |         |            |           |         |          |
| Main Courtyard | 108 x 36        | 3,888       | 430     | 260        | 555       | 300     | ~~~~~    |
| Courtyard Bar  | 53 x 9.5        | 504         | ~~~~~   | ~~~~~      | 75        | ~~~~~   | 40       |
| Billiards Room | 105 x 22        | 2,310       | 225     | 135        | 330       | 120     | ~~~~~    |
| <b>Level 2</b> |                 |             |         |            |           |         |          |
| Ballroom       | 105 x 23        | 2,415       | 270     | 160        | 345       | 200     | ~~~~~    |
| VIP Lounge     | 25 x 25         | 625         | 70      | 45         | 90        | 40      | 28       |

## First Floor

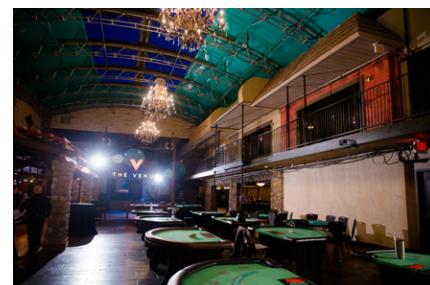
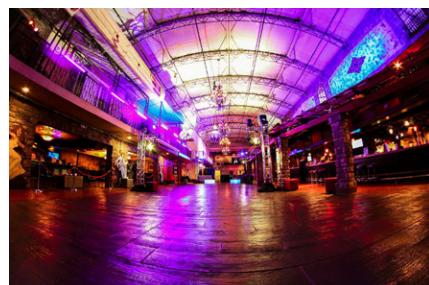


### **Main Courtyard**

3,888 sq ft

Elegant, versatile, and functional –the Main Courtyard offers the ideal setting for any event. Complete with a built-in stage, dynamic lighting and premium audio and visual, the Main Courtyard is built for a purpose – to provide an event space that is as visually stunning as it is practical.

Intricate stone, wood, and wrought iron combine to form a truly incredible setting to create an experience worth remembering!



### **Main Lobby**

325 sq ft

An inviting yet functional space, the Main Lobby not only provides a warm welcome to guests entering The Venue, but also features a built-in office with counter space, perfect for staging collateral, ticketing, or event supplies. It is also versatile for an office, providing a centrally located area for operations staff. A few quick steps through the lobby leads into the Main Courtyard, or guests can take the stairs, arriving into The Venue's second level.



### **Billiards Room**

2,310 sq ft

Adjacent to the Main Courtyard is the Billiards Rooms, with its signature built-in bar, billiards tables, and flat screen TVs. This room can be used exclusively to provide a great setting for a reception, or can be used in tandem with the Main Courtyard to extend the capacity and provide additional space for entertainment. Complete with an electric fireplace for added ambience, the Billiards Room is truly an inviting option.



### **Courtyard Bar**

504 sq ft

Arguably one of the most characteristic spaces within The Venue, the Courtyard Bar is designed to inspire the imagination and create conversation amongst guests. With its signature "leafy" canopy and direct line of sight to The Venue's main stage, the Courtyard Bar provides a flexible space that can be used to stage Food and Beverage for events in the Main Courtyard. Or, with built in barstools, booths, and cocktail tables, the bar can stand on its own to provide the perfect space for a reception.

## Second Floor



### **Ballroom**

2,415 sq ft

The Ballroom is located on The Venue's second floor, and overlooks the Main Courtyard. The space features elegant chandeliers, rich wood and stone, private restrooms and a dedicated bar. A great choice for a private event of any nature, or open the accordion doors and step onto the balcony for a birdseye view of the main stage and all the action.



### **VIP Lounge**

625 sq ft

Natural lighting, upgraded lounge furniture, and a Birdseye view of the Main Courtyard and stage, the "VIP" Lounge is a fitting name for a space that offers this "elevated" event experience. A unique space for small meetings or receptions, or a perfect pairing for an event or entertainment occurring on The Venue's main stage, the VIP Lounge is a versatile option for any event.

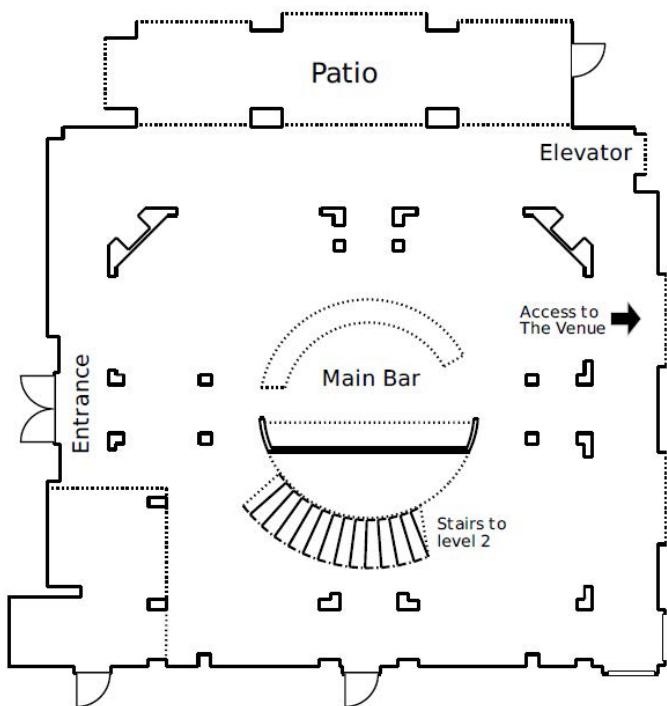


VIRTUEVICE

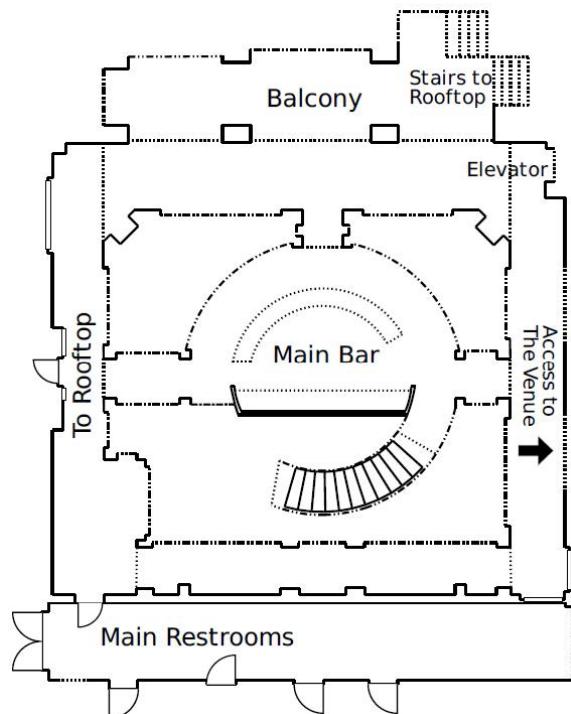
SCOTTSDALE

## VirtueVice Bar & Lounge

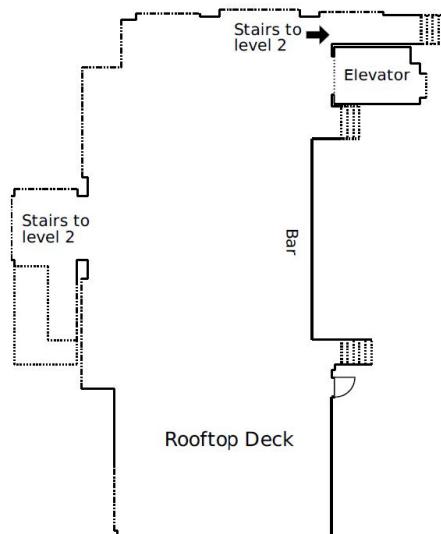
VIRTUEVICE - LEVEL ONE



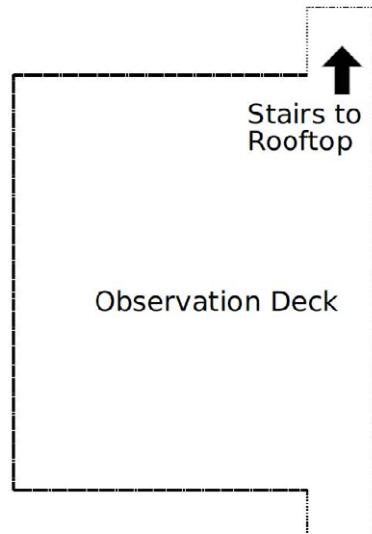
VIRTUEVICE - LEVEL TWO



ROOFTOP DECK



OBSERVATION DECK



# Dimensions & Capacities

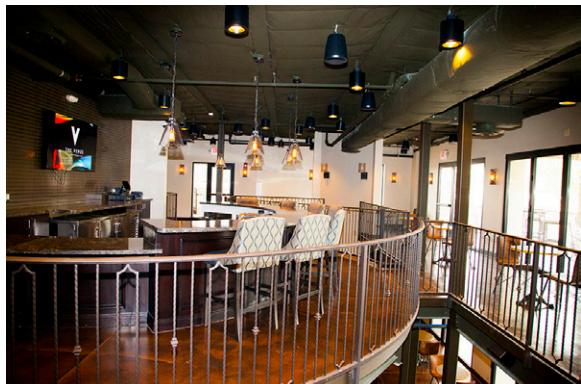
| Room Name            | Dimensions (ft) | Total Sq Ft | Theater         | Schoolroom | Reception | Banquet      |
|----------------------|-----------------|-------------|-----------------|------------|-----------|--------------|
| <b>Level 1</b>       |                 |             |                 |            |           |              |
| First Level          | 108 x 36        | 1,540       | ooooooooooooooo |            | 170       | 100          |
| First Level - Patio  | 53 x 9.5        | 570         | ooooooooooooooo |            | 65        | oooooooooooo |
| Second Level         | 105 x 22        | 1,400       | ooooooooooooooo |            | 155       | oooooooooooo |
| Second Level Balcony | 105 x 23        | 288         | ooooooooooooooo |            | 30        | oooooooooooo |
| Rooftop Deck         | 25 x 25         | 2,997       | 330             | 200        | 330       | 210          |
| Observation Deck     | 25 x 25         | 609         | 65              | 40         | 70        | 60           |



## VirtueVice - First Floor

2,000 sq ft

A chic yet elegant feel, the VirtueVice first floor welcomes guests with ample lounge seating, a large circular bar, and natural lighting that leads out to a patio to enjoy the views and vibe of Old Town Scottsdale.



## VirtueVice - Second Floor

1,689 sq ft

A lofted bar, access to the Rooftop Deck, and a large balcony overlooking Old Town Scottsdale, the second floor of VirtueVice Bar & Lounge offers it all. Complete with an open-air feel that includes natural lighting and views of the lounge's main floor, VirtueVice's second floor is a great space to take your event to the next level.



### Rooftop Deck

2,997 sq ft

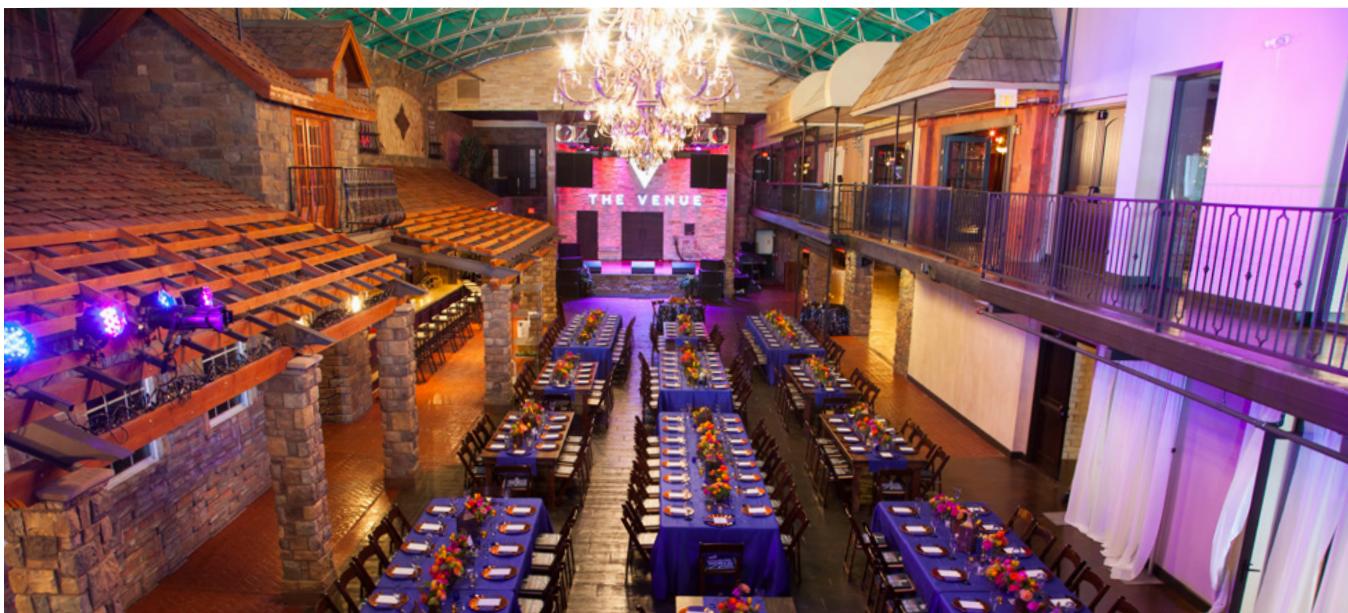
The crowning jewel of The Venue, the Rooftop Deck offers a truly elevated event experience. With sweeping views of the surrounding mountains, a large outdoor bar, and custom lounge furniture, the Rooftop Deck offers the perfect setting for an unforgettable event.



### Observation Deck

609 sq ft

Providing a birds-eye view of the surrounding valley, the Observation Deck not only provides unparalleled views of the city but also overlooks the Rooftop Deck. Whether a separate event or used in tandem with the Rooftop, this is the perfect place for a more intimate, VIP experience while enjoying all the desert has to offer!



YOUR VISION. YOUR VENUE.





## Appendix H – MAG Socioeconomic Projections

H

# Socioeconomic Projections

## Population and Employment

by Municipal Planning Area, Jurisdiction, and Regional Analysis Zone

June 2019



302 North 1st Avenue, Suite 300  
Phoenix, Arizona 85003  
(602) 254-6300

## Maricopa Association of Governments

**Table 1: Total Population by Municipal Planning Area  
July 1, 2018 and Projections July 1, 2020 to July 1, 2055**

| Municipal Planning Area                       | Total Population |           |           |           |           |           |
|---|------------------|-----------|-----------|-----------|-----------|-----------|
|   | 2018             | 2020      | 2030      | 2040      | 2050      | 2055      |
| <b>Apache Junction</b>                        | 59,000           | 60,800    | 70,000    | 92,000    | 117,100   | 132,600   |
| <b>Avondale</b>                               | 84,200           | 86,700    | 101,800   | 111,900   | 119,000   | 122,100   |
| <b>Buckeye</b>                                | 89,000           | 97,700    | 186,600   | 305,400   | 409,900   | 459,300   |
| <b>Carefree</b>                               | 3,700            | 3,800     | 4,100     | 4,200     | 4,200     | 4,300     |
| <b>Cave Creek</b>                             | 5,900            | 6,000     | 6,500     | 7,000     | 7,200     | 7,300     |
| <b>Chandler</b>                               | 270,300          | 279,500   | 309,100   | 321,100   | 329,000   | 332,400   |
| <b>El Mirage</b>                              | 34,300           | 35,100    | 36,500    | 36,900    | 37,200    | 37,200    |
| <b>Florence</b>                               | 79,400           | 85,500    | 120,300   | 160,500   | 209,900   | 231,400   |
| <b>Fort McDowell Yavapai Native Nation</b>    | 1,000            | 1,100     | 1,100     | 1,100     | 1,100     | 1,100     |
| <b>Fountain Hills</b>                         | 24,000           | 24,700    | 26,200    | 26,600    | 26,900    | 27,000    |
| <b>Gila Bend</b>                              | 2,500            | 2,700     | 3,700     | 3,700     | 3,900     | 4,200     |
| <b>Gila River Indian Native Nation</b>        | 12,000           | 12,200    | 12,300    | 12,300    | 12,300    | 12,300    |
| <b>Gilbert</b>                                | 256,500          | 265,900   | 293,500   | 308,800   | 318,100   | 321,400   |
| <b>Glendale</b>                               | 272,200          | 279,100   | 306,400   | 323,400   | 333,200   | 338,800   |
| <b>Goodyear</b>                               | 87,300           | 92,100    | 140,300   | 192,200   | 228,600   | 247,900   |
| <b>Guadalupe</b>                              | 6,300            | 6,400     | 6,700     | 6,800     | 6,800     | 6,800     |
| <b>Litchfield Park</b>                        | 13,300           | 14,000    | 15,400    | 15,700    | 16,100    | 16,400    |
| <b>Maricopa</b>                               | 59,800           | 67,000    | 90,800    | 106,400   | 121,600   | 128,900   |
| <b>Mesa</b>                                   | 533,400          | 552,800   | 607,500   | 649,400   | 680,000   | 690,300   |
| <b>Paradise Valley</b>                        | 14,000           | 14,100    | 14,700    | 15,100    | 15,200    | 15,300    |
| <b>Peoria</b>                                 | 188,500          | 196,600   | 232,400   | 273,700   | 312,600   | 329,900   |
| <b>Phoenix</b>                                | 1,653,500        | 1,697,700 | 1,881,900 | 2,019,300 | 2,117,400 | 2,155,300 |
| <b>Queen Creek</b>                            | 58,700           | 65,000    | 90,900    | 109,000   | 120,900   | 128,500   |
| <b>Salt River Pima-Maricopa Native Nation</b> | 6,800            | 6,100     | 5,700     | 5,800     | 5,800     | 5,800     |
| <b>Scottsdale</b>                             | 245,500          | 253,800   | 281,900   | 299,400   | 311,400   | 316,700   |
| <b>Surprise</b>                               | 144,000          | 150,300   | 216,700   | 307,500   | 383,300   | 417,200   |
| <b>Tempe</b>                                  | 185,300          | 190,000   | 217,100   | 247,000   | 272,400   | 282,200   |
| <b>Tolleson</b>                               | 7,000            | 7,100     | 8,600     | 10,300    | 11,400    | 11,800    |
| <b>Unincorporated Pinal County</b>            | 66,800           | 68,600    | 79,100    | 93,700    | 110,800   | 122,700   |
| <b>Unincorporated Maricopa County</b>         | 97,900           | 101,200   | 110,500   | 116,800   | 137,000   | 152,600   |
| <b>Wickenburg</b>                             | 8,200            | 8,500     | 9,400     | 9,500     | 9,800     | 10,000    |
| <b>Youngtown</b>                              | 6,600            | 6,800     | 7,300     | 7,700     | 7,800     | 7,800     |

*Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.*

*Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), June 2019*

*For explanation of variables and complete notation on this series, please refer to the Notes and Caveats in Appendix A.*

**Maricopa Association of Governments**  
**Table 2: Total Employment by Municipal Planning Area**  
**July 1, 2018 and Projections July 1, 2020 to July 1, 2055**

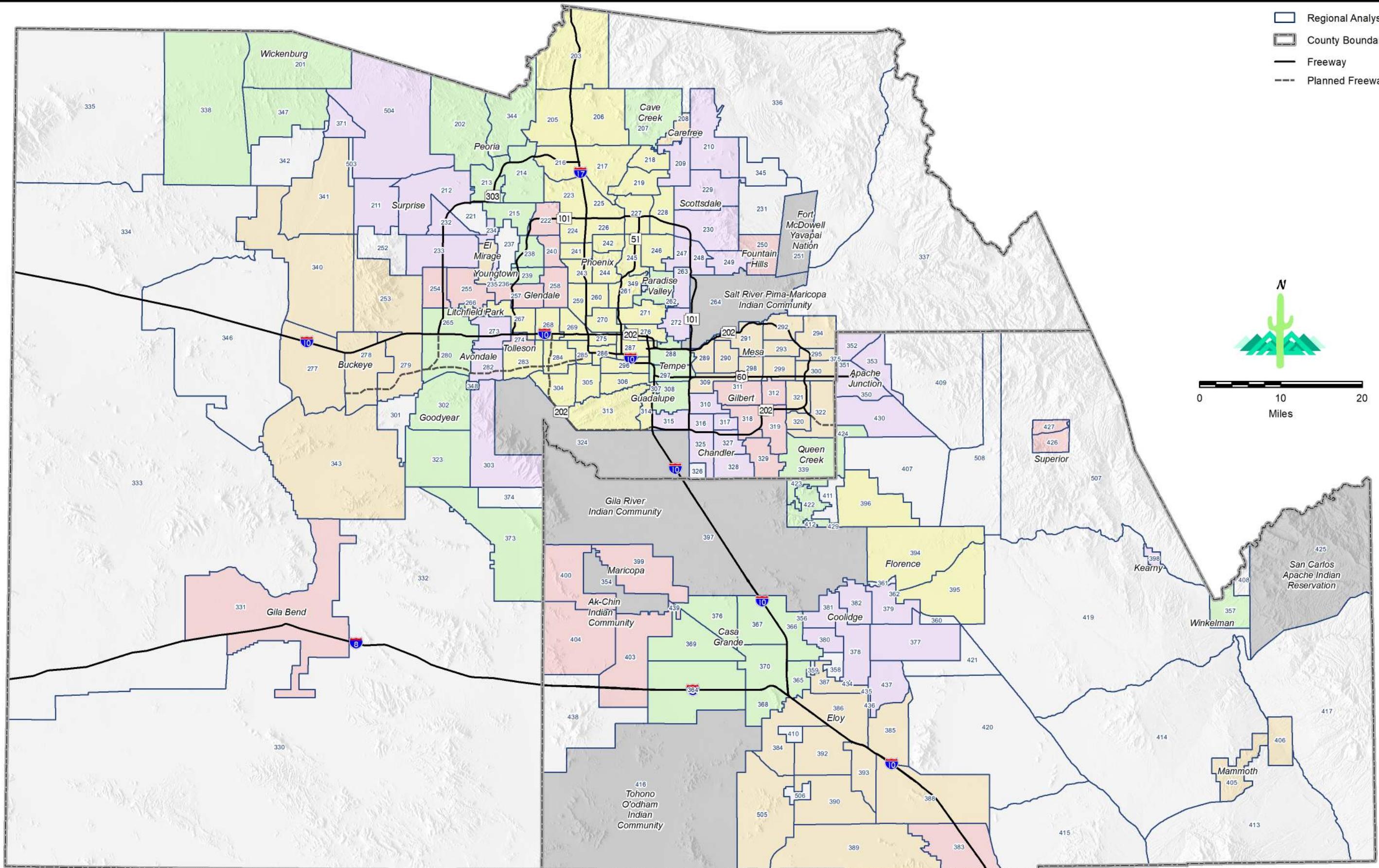
| Municipal Planning Area                       | Total Employment |         |           |           |           |           |
|---|------------------|---------|-----------|-----------|-----------|-----------|
|   | 2018             | 2020    | 2030      | 2040      | 2050      | 2055      |
| <b>Apache Junction</b>                        | 7,800            | 8,800   | 13,100    | 17,800    | 26,400    | 30,500    |
| <b>Avondale</b>                               | 22,400           | 23,200  | 30,400    | 36,200    | 42,800    | 45,400    |
| <b>Buckeye</b>                                | 21,600           | 26,900  | 42,900    | 64,500    | 98,000    | 128,900   |
| <b>Carefree</b>                               | 1,600            | 1,600   | 2,100     | 2,400     | 2,500     | 2,600     |
| <b>Cave Creek</b>                             | 2,200            | 2,400   | 2,700     | 2,900     | 3,000     | 3,200     |
| <b>Chandler</b>                               | 145,500          | 154,700 | 182,300   | 202,100   | 215,200   | 222,000   |
| <b>El Mirage</b>                              | 5,000            | 5,100   | 6,500     | 7,200     | 8,000     | 8,900     |
| <b>Florence</b>                               | 11,000           | 12,100  | 17,000    | 26,400    | 40,900    | 51,100    |
| <b>Fort McDowell Yavapai Native Nation</b>    | 2,200            | 2,400   | 2,400     | 2,500     | 2,600     | 2,600     |
| <b>Fountain Hills</b>                         | 7,100            | 7,700   | 9,100     | 9,800     | 10,200    | 10,300    |
| <b>Gila Bend</b>                              | 900              | 900     | 1,200     | 1,300     | 1,500     | 1,700     |
| <b>Gila River Indian Native Nation</b>        | 10,500           | 10,700  | 11,500    | 13,100    | 14,800    | 15,500    |
| <b>Gilbert</b>                                | 92,800           | 98,600  | 120,200   | 135,900   | 146,600   | 152,200   |
| <b>Glendale</b>                               | 103,800          | 111,400 | 134,000   | 153,100   | 168,900   | 175,900   |
| <b>Goodyear</b>                               | 35,900           | 37,200  | 50,600    | 69,000    | 92,600    | 102,500   |
| <b>Guadalupe</b>                              | 1,300            | 1,300   | 1,500     | 1,600     | 1,600     | 1,600     |
| <b>Litchfield Park</b>                        | 3,800            | 4,400   | 5,200     | 5,900     | 6,400     | 6,700     |
| <b>Maricopa</b>                               | 6,200            | 7,100   | 11,400    | 18,200    | 28,200    | 33,500    |
| <b>Mesa</b>                                   | 197,200          | 205,900 | 249,000   | 296,000   | 333,700   | 351,000   |
| <b>Paradise Valley</b>                        | 6,300            | 6,300   | 6,800     | 7,100     | 7,500     | 7,700     |
| <b>Peoria</b>                                 | 58,200           | 62,400  | 73,100    | 84,800    | 91,900    | 96,300    |
| <b>Phoenix</b>                                | 897,700          | 937,600 | 1,084,000 | 1,189,200 | 1,264,900 | 1,298,900 |
| <b>Queen Creek</b>                            | 15,500           | 16,400  | 19,900    | 24,000    | 28,900    | 31,100    |
| <b>Salt River Pima-Maricopa Native Nation</b> | 21,200           | 22,900  | 28,200    | 33,900    | 35,900    | 36,400    |
| <b>Scottsdale</b>                             | 197,200          | 207,400 | 235,500   | 252,000   | 261,700   | 267,000   |
| <b>Surprise</b>                               | 33,600           | 36,400  | 59,500    | 86,400    | 113,400   | 130,500   |
| <b>Tempe</b>                                  | 190,000          | 200,500 | 231,200   | 257,700   | 280,000   | 290,900   |
| <b>Tolleson</b>                               | 17,700           | 18,300  | 21,200    | 23,900    | 26,000    | 26,700    |
| <b>Unincorporated Pinal County</b>            | 3,500            | 3,900   | 6,000     | 8,900     | 13,500    | 17,800    |
| <b>Unincorporated Maricopa County</b>         | 28,600           | 31,500  | 35,500    | 41,100    | 51,200    | 58,400    |
| <b>Wickenburg</b>                             | 4,400            | 4,600   | 5,200     | 5,600     | 6,000     | 6,200     |
| <b>Youngtown</b>                              | 1,500            | 1,800   | 2,200     | 2,700     | 2,800     | 3,100     |

*Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.*

*Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), June 2019*

*For explanation of variables and complete notation on this series, please refer to the Notes and Caveats in Appendix A.*

**Regional Analysis Zones (RAZ), 2019**  
**Maricopa and Pinal Counties, Arizona**



**Maricopa Association of Governments**  
**Table 4: Population by Regional Analysis Zone (RAZ) by MPA**  
**July 1, 2018 and Projections July 1, 2020 to July 1, 2055**

| RAZ   | County          | Total Population |           |           |           |           |           |
|---|-----------------|------------------|-----------|-----------|-----------|-----------|-----------|
|   |                 | 2018             | 2020      | 2030      | 2040      | 2050      | 2055      |
|   |                 | Total            | 1,653,469 | 1,697,722 | 1,881,876 | 2,019,269 | 2,117,427 |
| <b>Queen Creek MPA</b>                            |                 |                  |           |           |           |           |           |
| 339   | Maricopa County | 49,781           | 53,579    | 72,670    | 82,172    | 87,155    | 89,586    |
| 422   | Pinal County    | 13               | 13        | 300       | 437       | 564       | 638       |
| 423   | Pinal County    | 1,286            | 1,410     | 3,714     | 6,136     | 7,457     | 8,686     |
| 424   | Pinal County    | 7,642            | 10,003    | 14,200    | 20,287    | 25,759    | 29,586    |
|   | Total           | 58,722           | 65,005    | 90,884    | 109,032   | 120,935   | 128,496   |
| <b>Salt River Pima-Maricopa Native Nation MPA</b> |                 |                  |           |           |           |           |           |
| 264   | Maricopa County | 6,798            | 6,073     | 5,708     | 5,820     | 5,820     | 5,820     |
|   | Total           | 6,798            | 6,073     | 5,708     | 5,820     | 5,820     | 5,820     |
| <b>Scottsdale MPA</b>                             |                 |                  |           |           |           |           |           |
| 209   | Maricopa County | 12,188           | 12,605    | 13,961    | 14,512    | 14,984    | 15,255    |
| 210   | Maricopa County | 6,013            | 6,591     | 10,463    | 12,339    | 13,491    | 13,961    |
| 229   | Maricopa County | 20,542           | 21,269    | 25,221    | 27,864    | 29,698    | 30,229    |
| 230   | Maricopa County | 32,232           | 33,028    | 38,882    | 43,580    | 46,789    | 48,510    |
| 247   | Maricopa County | 13,549           | 13,858    | 15,420    | 16,342    | 16,871    | 17,019    |
| 248   | Maricopa County | 36,178           | 37,227    | 38,468    | 38,807    | 39,048    | 39,143    |
| 249   | Maricopa County | 20,903           | 21,410    | 22,543    | 22,768    | 22,839    | 22,848    |
| 263   | Maricopa County | 34,908           | 35,814    | 37,002    | 37,252    | 37,584    | 37,773    |
| 272   | Maricopa County | 68,987           | 71,970    | 79,910    | 85,942    | 90,054    | 91,927    |
|   | Total           | 245,500          | 253,772   | 281,870   | 299,406   | 311,358   | 316,665   |
| <b>Surprise MPA</b>                               |                 |                  |           |           |           |           |           |
| 211   | Maricopa County | 863              | 884       | 4,471     | 23,112    | 36,704    | 40,737    |
| 212   | Maricopa County | 10,265           | 11,365    | 37,615    | 69,296    | 85,862    | 93,806    |
| 232   | Maricopa County | 29,296           | 30,200    | 34,506    | 37,144    | 37,927    | 38,313    |
| 233   | Maricopa County | 87,834           | 91,276    | 111,822   | 119,384   | 123,777   | 126,523   |
| 234   | Maricopa County | 8,969            | 9,467     | 10,460    | 10,878    | 11,335    | 11,488    |
| 371   | Maricopa County | 342              | 344       | 434       | 734       | 2,584     | 4,316     |
| 504   | Maricopa County | 6,460            | 6,718     | 17,425    | 46,912    | 85,127    | 102,004   |
|   | Total           | 144,029          | 150,254   | 216,733   | 307,460   | 383,316   | 417,187   |
| <b>Tempe MPA</b>                                  |                 |                  |           |           |           |           |           |
| 288   | Maricopa County | 73,442           | 76,444    | 100,651   | 129,202   | 150,094   | 157,410   |
| 297   | Maricopa County | 53,146           | 54,092    | 56,336    | 57,432    | 61,780    | 64,273    |
| 308   | Maricopa County | 58,756           | 59,473    | 60,120    | 60,348    | 60,476    | 60,559    |
|   | Total           | 185,344          | 190,009   | 217,107   | 246,982   | 272,350   | 282,242   |

Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.

Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), May 2019

For explanation of variables and complete notation on this series, please refer to the Notes and Caveats in Appendix A.

**Maricopa Association of Governments**  
**Table 5: Employment by Regional Analysis Zone (RAZ) by MPA**  
**July 1, 2018 and Projections July 1, 2020 to July 1, 2055**

| RAZ   | County          | Total Employment |         |           |           |           |           |
|---|-----------------|------------------|---------|-----------|-----------|-----------|-----------|
|   |                 | 2018             | 2020    | 2030      | 2040      | 2050      | 2055      |
|   | Total           | 897,713          | 937,622 | 1,083,980 | 1,189,209 | 1,264,941 | 1,298,903 |
| <b>Queen Creek MPA</b>                            |                 |                  |         |           |           |           |           |
| 339   | Maricopa County | 13,933           | 14,696  | 16,482    | 18,825    | 20,733    | 21,151    |
| 422   | Pinal County    | 9                | 8       | 18        | 22        | 31        | 39        |
| 423   | Pinal County    | 89               | 109     | 351       | 620       | 1,068     | 1,639     |
| 424   | Pinal County    | 1,435            | 1,576   | 3,073     | 4,571     | 7,020     | 8,309     |
|   | Total           | 15,466           | 16,389  | 19,924    | 24,038    | 28,852    | 31,138    |
| <b>Salt River Pima-Maricopa Native Nation MPA</b> |                 |                  |         |           |           |           |           |
| 264   | Maricopa County | 21,160           | 22,869  | 28,215    | 33,871    | 35,903    | 36,442    |
|   | Total           | 21,160           | 22,869  | 28,215    | 33,871    | 35,903    | 36,442    |
| <b>Scottsdale MPA</b>                             |                 |                  |         |           |           |           |           |
| 209   | Maricopa County | 4,488            | 4,659   | 4,851     | 5,174     | 5,161     | 5,344     |
| 210   | Maricopa County | 2,386            | 3,018   | 2,759     | 3,091     | 3,139     | 3,191     |
| 229   | Maricopa County | 9,604            | 10,005  | 11,231    | 11,962    | 12,193    | 12,896    |
| 230   | Maricopa County | 23,272           | 24,919  | 32,112    | 36,968    | 40,834    | 42,136    |
| 247   | Maricopa County | 44,254           | 47,089  | 52,652    | 54,822    | 55,679    | 56,105    |
| 248   | Maricopa County | 29,603           | 30,901  | 33,285    | 34,001    | 34,234    | 34,548    |
| 249   | Maricopa County | 7,409            | 7,692   | 8,179     | 8,684     | 8,906     | 9,045     |
| 263   | Maricopa County | 26,351           | 26,961  | 28,903    | 30,245    | 30,919    | 31,381    |
| 272   | Maricopa County | 49,833           | 52,185  | 61,540    | 67,039    | 70,676    | 72,330    |
|   | Total           | 197,200          | 207,429 | 235,512   | 251,986   | 261,741   | 266,976   |
| <b>Surprise MPA</b>                               |                 |                  |         |           |           |           |           |
| 211   | Maricopa County | 60               | 53      | 1,560     | 3,172     | 4,766     | 7,017     |
| 212   | Maricopa County | 2,008            | 2,338   | 5,821     | 9,965     | 13,362    | 15,709    |
| 232   | Maricopa County | 8,349            | 9,228   | 11,297    | 12,187    | 12,875    | 13,116    |
| 233   | Maricopa County | 19,943           | 21,079  | 32,661    | 44,032    | 52,007    | 57,402    |
| 234   | Maricopa County | 2,588            | 2,711   | 3,354     | 3,922     | 4,239     | 4,386     |
| 371   | Maricopa County | 18               | 20      | 327       | 423       | 2,381     | 2,937     |
| 504   | Maricopa County | 677              | 1,020   | 4,460     | 12,695    | 23,763    | 29,886    |
|   | Total           | 33,643           | 36,449  | 59,480    | 86,396    | 113,393   | 130,453   |
| <b>Tempe MPA</b>                                  |                 |                  |         |           |           |           |           |
| 288   | Maricopa County | 88,927           | 94,229  | 111,010   | 128,894   | 144,714   | 152,703   |
| 297   | Maricopa County | 44,730           | 47,069  | 53,149    | 57,125    | 60,725    | 62,552    |
| 308   | Maricopa County | 56,380           | 59,208  | 67,052    | 71,701    | 74,542    | 75,596    |
|   | Total           | 190,037          | 200,506 | 231,211   | 257,720   | 279,981   | 290,851   |

Notes: Numbers rounded to the nearest 100. These projections include both the Maricopa County and Pinal County portions for Apache Junction, Queen Creek, and the Gila River Indian Community. Peoria and Wickenburg include only the Maricopa County portion.

Source: Maricopa Association of Governments (MAG) Socioeconomic Projections of Population and Employment by Municipal Planning Area (MPA) and Regional Analysis Zone (RAZ), May 2019

For explanation of variables and complete notation on this series, please refer to the Notes and Caveats in Appendix A.



## Appendix I – Year 2024 No Build Capacity Analysis

## Intersection

Int Delay, s/veh 0.4

| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | W    |      | ↑↑   |      | ↑    | ↑↑↑  |
| Traffic Vol, veh/h       | 5    | 16   | 561  | 23   | 31   | 586  |
| Future Vol, veh/h        | 5    | 16   | 561  | 23   | 31   | 586  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | 100  | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | 0    | -    | 0    | -    | -    | 0    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 5    | 17   | 610  | 25   | 34   | 637  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |       |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 946    | 318    | 0      | 0 | 635   |
| Stage 1              | 623    | -      | -      | - | -     |
| Stage 2              | 323    | -      | -      | - | -     |
| Critical Hdwy        | 6.29   | 6.94   | -      | - | 4.14  |
| Critical Hdwy Stg 1  | 5.84   | -      | -      | - | -     |
| Critical Hdwy Stg 2  | 6.04   | -      | -      | - | -     |
| Follow-up Hdwy       | 3.67   | 3.32   | -      | - | 2.22  |
| Pot Cap-1 Maneuver   | *712   | *871   | -      | - | *1304 |
| Stage 1              | *789   | -      | -      | - | -     |
| Stage 2              | *670   | -      | -      | - | -     |
| Platoon blocked, %   | 1      | 1      | -      | - | 1     |
| Mov Cap-1 Maneuver   | *694   | *871   | -      | - | *1304 |
| Mov Cap-2 Maneuver   | *568   | -      | -      | - | -     |
| Stage 1              | *789   | -      | -      | - | -     |
| Stage 2              | *653   | -      | -      | - | -     |

| Approach             | WB  | NB | SB  |
|----------------------|-----|----|-----|
| HCM Control Delay, s | 9.8 | 0  | 0.4 |
| HCM LOS              | A   |    |     |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL        | SBT |
|-----------------------|-----|----------|------------|-----|
| Capacity (veh/h)      | -   | -        | 773 * 1304 | -   |
| HCM Lane V/C Ratio    | -   | -        | 0.03 0.026 | -   |
| HCM Control Delay (s) | -   | -        | 9.8 7.8    | -   |
| HCM Lane LOS          | -   | -        | A A        | -   |
| HCM 95th %tile Q(veh) | -   | -        | 0.1 0.1    | -   |

## Notes

~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

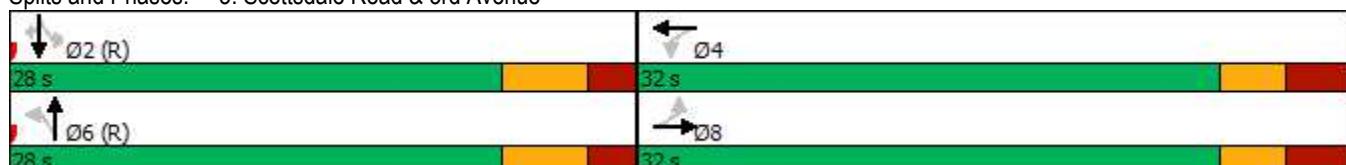
| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 2.1    |        |        |      |       |       |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL   | SBR   |
| Lane Configurations      |        |        |        |      |       |       |
| Traffic Vol, veh/h       | 11     | 51     | 31     | 11   | 16    | 3     |
| Future Vol, veh/h        | 11     | 51     | 31     | 11   | 16    | 3     |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | -      | -      | -    | 0     | -     |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0     | -     |
| Grade, %                 | -      | 0      | 0      | -    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 12     | 55     | 34     | 12   | 17    | 3     |
| Major/Minor              | Major1 | Major2 | Minor2 |      |       |       |
| Conflicting Flow All     | 46     | 0      | -      | 0    | 119   | 40    |
| Stage 1                  | -      | -      | -      | -    | 40    | -     |
| Stage 2                  | -      | -      | -      | -    | 79    | -     |
| Critical Hdwy            | 4.12   | -      | -      | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | 2.218  | -      | -      | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | 1567   | -      | -      | -    | 889   | 1046  |
| Stage 1                  | -      | -      | -      | -    | 991   | -     |
| Stage 2                  | -      | -      | -      | -    | 944   | -     |
| Platoon blocked, %       | 1      | -      | -      | -    | 1     | 1     |
| Mov Cap-1 Maneuver       | 1567   | -      | -      | -    | 882   | 1046  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 882   | -     |
| Stage 1                  | -      | -      | -      | -    | 983   | -     |
| Stage 2                  | -      | -      | -      | -    | 944   | -     |
| Approach                 | EB     | WB     | SB     |      |       |       |
| HCM Control Delay, s     | 1.3    | 0      | 9.1    |      |       |       |
| HCM LOS                  |        |        | A      |      |       |       |
| Minor Lane/Major Mvmt    | EBL    | EBT    | WBT    | WBR  | SBLn1 | SBLn2 |
| Capacity (veh/h)         | 1567   | -      | -      | -    | 904   | -     |
| HCM Lane V/C Ratio       | 0.008  | -      | -      | -    | 0.023 | -     |
| HCM Control Delay (s)    | 7.3    | 0      | -      | -    | 9.1   | -     |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0      | -      | -      | -    | 0.1   | -     |

| Movement                              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations                   | ↑    | ↑    |      | ↑    | ↑    |      | ↑    | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)                | 4    | 17   | 10   | 22   | 5    | 52   | 61   | 468  | 28   | 63   | 400  | 19   |
| Future Volume (veh/h)                 | 4    | 17   | 10   | 22   | 5    | 52   | 61   | 468  | 28   | 63   | 400  | 19   |
| Initial Q (Q <sub>b</sub> ), veh      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                   | 1.00 |      |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj                      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                 | No   |      |      | No   |      |      | No   |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln                | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h                  | 4    | 18   | 11   | 24   | 5    | 57   | 66   | 509  | 30   | 68   | 435  | 21   |
| Peak Hour Factor                      | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %                  | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h                            | 267  | 156  | 95   | 299  | 19   | 212  | 689  | 2238 | 132  | 689  | 2332 | 1040 |
| Arrive On Green                       | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 0.14 | 1.00 | 1.00 | 1.00 | 0.66 | 0.66 | 0.66 |
| Sat Flow, veh/h                       | 1340 | 1087 | 664  | 1381 | 129  | 1475 | 935  | 3410 | 201  | 866  | 3554 | 1585 |
| Grp Volume(v), veh/h                  | 4    | 0    | 29   | 24   | 0    | 62   | 66   | 265  | 274  | 68   | 435  | 21   |
| Grp Sat Flow(s), veh/h/ln             | 1340 | 0    | 1751 | 1381 | 0    | 1605 | 935  | 1777 | 1834 | 866  | 1777 | 1585 |
| Q Serve(g_s), s                       | 0.2  | 0.0  | 0.9  | 0.9  | 0.0  | 2.1  | 0.3  | 0.0  | 0.0  | 1.8  | 2.9  | 0.3  |
| Cycle Q Clear(g_c), s                 | 2.2  | 0.0  | 0.9  | 1.8  | 0.0  | 2.1  | 3.2  | 0.0  | 0.0  | 1.8  | 2.9  | 0.3  |
| Prop In Lane                          | 1.00 |      |      | 1.00 |      |      | 0.92 | 1.00 |      | 0.11 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h                | 267  | 0    | 252  | 299  | 0    | 231  | 689  | 1166 | 1204 | 689  | 2332 | 1040 |
| V/C Ratio(X)                          | 0.02 | 0.00 | 0.12 | 0.08 | 0.00 | 0.27 | 0.10 | 0.23 | 0.23 | 0.10 | 0.19 | 0.02 |
| Avail Cap(c_a), veh/h                 | 655  | 0    | 759  | 698  | 0    | 695  | 689  | 1166 | 1204 | 689  | 2332 | 1040 |
| HCM Platoon Ratio                     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                    | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.88 | 0.88 | 0.88 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh              | 23.9 | 0.0  | 22.4 | 23.1 | 0.0  | 22.9 | 0.1  | 0.0  | 0.0  | 3.8  | 4.0  | 3.6  |
| Incr Delay (d2), s/veh                | 0.0  | 0.0  | 0.1  | 0.0  | 0.0  | 0.2  | 0.2  | 0.4  | 0.4  | 0.3  | 0.2  | 0.0  |
| Initial Q Delay(d3), s/veh            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln             | 0.0  | 0.0  | 0.3  | 0.3  | 0.0  | 0.8  | 0.0  | 0.1  | 0.1  | 0.3  | 0.8  | 0.1  |
| Unsig. Movement Delay, s/veh          |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                 | 23.9 | 0.0  | 22.4 | 23.2 | 0.0  | 23.1 | 0.4  | 0.4  | 0.4  | 4.1  | 4.2  | 3.6  |
| LnGrp LOS                             | C    | A    | C    | C    | A    | C    | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                   | 33   |      |      |      | 86   |      |      | 605  |      |      | 524  |      |
| Approach Delay, s/veh                 | 22.6 |      |      |      | 23.1 |      |      | 0.4  |      |      | 4.2  |      |
| Approach LOS                          | C    |      |      |      | C    |      |      | A    |      |      | A    |      |
| Timer - Assigned Phs                  | 2    |      | 4    |      | 6    |      | 8    |      |      |      |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s | 45.4 |      | 14.6 |      | 45.4 |      | 14.6 |      |      |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s  | 6.0  |      | 6.0  |      | 6.0  |      | 6.0  |      |      |      |      |      |
| Max Green Setting (Gmax), s           | 22.0 |      | 26.0 |      | 22.0 |      | 26.0 |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s          | 4.9  |      | 4.1  |      | 5.2  |      | 4.2  |      |      |      |      |      |
| Green Ext Time (p_c), s               | 1.2  |      | 0.2  |      | 1.2  |      | 0.1  |      |      |      |      |      |
| <b>Intersection Summary</b>           |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                    |      |      | 4.1  |      |      |      |      |      |      |      |      |      |
| HCM 6th LOS                           |      |      | A    |      |      |      |      |      |      |      |      |      |

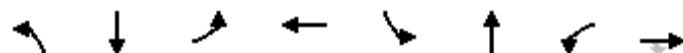


| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | SBTL                 | WBTL  | NBTL  | EBTL  |
| <b>Lead/Lag</b>   |                      |       |       |       |
| <b>Lead-Lag Optimize</b>  |                      |       |       |       |
| Recall Mode   | C-Max                | None  | C-Max | None  |
| Maximum Split (s)   | 28                   | 32    | 28    | 32    |
| Maximum Split (%)   | 46.7%                | 53.3% | 46.7% | 53.3% |
| Minimum Split (s)   | 23                   | 32    | 23    | 32    |
| Yellow Time (s)   | 3.8                  | 3     | 3.8   | 3     |
| All-Red Time (s)  | 2.2                  | 3     | 2.2   | 3     |
| Minimum Initial (s)   | 10                   | 10    | 10    | 10    |
| Vehicle Extension (s)   | 1                    | 2     | 1     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)  | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 7     | 7     |
| Flash Dont Walk (s)   | 10                   | 19    | 10    | 19    |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 35                   | 3     | 35    | 3     |
| End Time (s)  | 3                    | 35    | 3     | 35    |
| Yield/Force Off (s)   | 57                   | 29    | 57    | 29    |
| Yield/Force Off 170(s)  | 47                   | 10    | 47    | 10    |
| Local Start Time (s)  | 0                    | 28    | 0     | 28    |
| Local Yield (s)   | 22                   | 54    | 22    | 54    |
| Local Yield 170(s)  | 12                   | 35    | 12    | 35    |
| <b>Intersection Summary</b>   |                      |       |       |       |
| Cycle Length  | 60                   |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 55                   |       |       |       |
| Offset: 35 (58%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green |                      |       |       |       |

Splits and Phases: 5: Scottsdale Road & 3rd Avenue



| Movement   | EBL   | EBT  | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|-------|-------|------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑↑    | ↑↑   | ↑    | ↑↑    | ↑↑    |      | ↑     | ↑↑    |      | ↑    | ↑↑↑  |      |
| Traffic Volume (veh/h)   | 188   | 676  | 77   | 61    | 600   | 37   | 73    | 379   | 15   | 38   | 458  | 85   |
| Future Volume (veh/h)  | 188   | 676  | 77   | 61    | 600   | 37   | 73    | 379   | 15   | 38   | 458  | 85   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00  |       | 1.00 | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      | No   |       | No    |      | No    |       | No   | No   |      | No   |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870  | 1870  | 1870 | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 204   | 735  | 84   | 66    | 652   | 40   | 79    | 412   | 16   | 41   | 498  | 92   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2     | 2     | 2    | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 353   | 1321 | 589  | 128   | 1035  | 63   | 234   | 1119  | 43   | 160  | 1206 | 218  |
| Arrive On Green  | 0.10  | 0.37 | 0.37 | 0.02  | 0.20  | 0.20 | 0.13  | 0.32  | 0.32 | 0.09 | 0.28 | 0.28 |
| Sat Flow, veh/h  | 3456  | 3554 | 1585 | 3456  | 3401  | 208  | 1781  | 3488  | 135  | 1781 | 4347 | 786  |
| Grp Volume(v), veh/h   | 204   | 735  | 84   | 66    | 340   | 352  | 79    | 209   | 219  | 41   | 388  | 202  |
| Grp Sat Flow(s), veh/h/ln  | 1728  | 1777 | 1585 | 1728  | 1777  | 1833 | 1781  | 1777  | 1846 | 1781 | 1702 | 1729 |
| Q Serve(g_s), s  | 6.8   | 19.7 | 2.7  | 2.3   | 21.0  | 21.0 | 4.8   | 10.9  | 10.9 | 2.6  | 11.1 | 11.5 |
| Cycle Q Clear(g_c), s  | 6.8   | 19.7 | 2.7  | 2.3   | 21.0  | 21.0 | 4.8   | 10.9  | 10.9 | 2.6  | 11.1 | 11.5 |
| Prop In Lane   | 1.00  |      | 1.00 | 1.00  |       | 0.11 | 1.00  |       | 0.07 | 1.00 |      | 0.45 |
| Lane Grp Cap(c), veh/h   | 353   | 1321 | 589  | 128   | 540   | 557  | 234   | 570   | 592  | 160  | 945  | 480  |
| V/C Ratio(X)   | 0.58  | 0.56 | 0.14 | 0.52  | 0.63  | 0.63 | 0.34  | 0.37  | 0.37 | 0.26 | 0.41 | 0.42 |
| Avail Cap(c_a), veh/h  | 423   | 1321 | 589  | 196   | 540   | 557  | 234   | 570   | 592  | 160  | 945  | 480  |
| HCM Platoon Ratio  | 1.00  | 1.00 | 1.00 | 0.67  | 0.67  | 0.67 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 1.00  | 1.00 | 1.00 | 0.95  | 0.95  | 0.95 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 51.4  | 29.9 | 10.4 | 57.4  | 41.6  | 41.6 | 47.4  | 31.4  | 31.4 | 50.9 | 35.3 | 35.5 |
| Incr Delay (d2), s/veh   | 0.6   | 1.7  | 0.5  | 1.1   | 5.2   | 5.1  | 0.3   | 1.8   | 1.8  | 0.3  | 1.3  | 2.7  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.9   | 8.6  | 1.6  | 1.0   | 10.3  | 10.7 | 2.2   | 4.9   | 5.1  | 1.2  | 4.8  | 5.2  |
| Unsig. Movement Delay, s/veh   |       |      |      |       |       |      |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 52.0  | 31.6 | 10.9 | 58.6  | 46.8  | 46.7 | 47.7  | 33.2  | 33.2 | 51.2 | 36.7 | 38.2 |
| LnGrp LOS  | D     | C    | B    | E     | D     | D    | D     | C     | C    | D    | D    | D    |
| Approach Vol, veh/h  | 1023  |      |      |       | 758   |      |       | 507   |      |      | 631  |      |
| Approach Delay, s/veh  | 33.9  |      |      |       | 47.8  |      |       | 35.4  |      |      | 38.1 |      |
| Approach LOS   | C     |      |      |       | D     |      |       | D     |      |      | D    |      |
| Timer - Assigned Phs   | 1     | 2    | 3    | 4     | 5     | 6    | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 21.4  | 39.0 | 17.6 | 42.0  | 16.4  | 44.0 | 9.6   | 50.0  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.6 | 5.7  | 5.4  | * 5.5 | * 5.6 | 5.5  | * 5.2 | * 5.4 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 13  | 33.3 | 14.7 | * 37  | * 8.4 | 38.5 | * 6.8 | * 45  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 6.8   | 13.5 | 8.8  | 23.0  | 4.6   | 12.9 | 4.3   | 21.7  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 1.3  | 0.2  | 1.3   | 0.0   | 0.8  | 0.0   | 1.9   |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |       |       |      |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      |      | 38.7  |       |      |       |       |      |      |      |      |
| HCM 6th LOS  |       |      |      | D     |       |      |       |       |      |      |      |      |
| <b>Notes</b>   |       |      |      |       |       |      |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |       |       |      |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBT   | SBL   | NBT   | WBL   | EBT   |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lead  | Lag   |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 19    | 39    | 20    | 42    | 14    | 44    | 12    | 50    |
| Maximum Split (%)      | 15.8% | 32.5% | 16.7% | 35.0% | 11.7% | 36.7% | 10.0% | 41.7% |
| Minimum Split (s)      | 10.6  | 33.7  | 10.3  | 31.5  | 10.6  | 37.5  | 10.2  | 31.4  |
| Yellow Time (s)        | 3.6   | 4.4   | 3.3   | 4     | 3.6   | 4.4   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.3   | 2     | 1.5   | 2     | 1.1   | 1.9   | 1.4   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 24    |       | 22    |       | 28    |       | 22    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 51    | 12    | 112   | 70    | 56    | 12    | 70    | 82    |
| End Time (s)           | 70    | 51    | 12    | 112   | 70    | 56    | 82    | 12    |
| Yield/Force Off (s)    | 64.4  | 45.3  | 6.7   | 106.5 | 64.4  | 50.5  | 76.8  | 6.6   |
| Yield/Force Off 170(s) | 64.4  | 21.3  | 6.7   | 84.5  | 64.4  | 22.5  | 76.8  | 104.6 |
| Local Start Time (s)   | 39    | 0     | 100   | 58    | 44    | 0     | 58    | 70    |
| Local Yield (s)        | 52.4  | 33.3  | 114.7 | 94.5  | 52.4  | 38.5  | 64.8  | 114.6 |
| Local Yield 170(s)     | 52.4  | 9.3   | 114.7 | 72.5  | 52.4  | 10.5  | 64.8  | 92.6  |

**Intersection Summary**

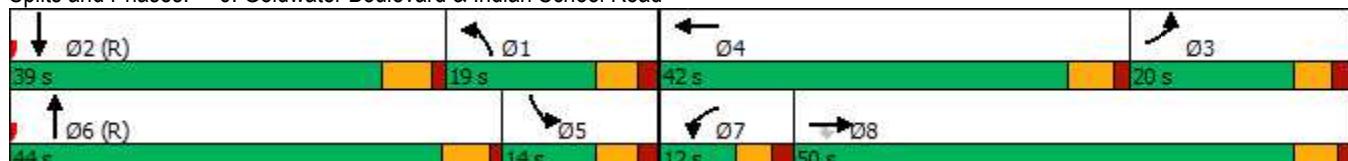
Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 12 (10%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Splits and Phases: 6: Goldwater Boulevard &amp; Indian School Road



| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      |       | ↔    |      |      | ↔    |      |
| Traffic Volume (veh/h)   | 29   | 655  | 13    | 70   | 700  | 34   | 5     | 5    | 10   | 3    | 5    | 15   |
| Future Volume (veh/h)  | 29   | 655  | 13    | 70   | 700  | 34   | 5     | 5    | 10   | 3    | 5    | 15   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 32   | 712  | 14    | 76   | 761  | 37   | 5     | 5    | 11   | 3    | 5    | 16   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 448  | 2370 | 47    | 483  | 2294 | 111  | 112   | 117  | 211  | 64   | 106  | 271  |
| Arrive On Green  | 0.67 | 0.67 | 0.67  | 0.67 | 0.67 | 0.67 | 0.25  | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Sat Flow, veh/h  | 681  | 3565 | 70    | 728  | 3449 | 168  | 299   | 470  | 846  | 120  | 425  | 1089 |
| Grp Volume(v), veh/h   | 32   | 355  | 371   | 76   | 392  | 406  | 21    | 0    | 0    | 24   | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln  | 681  | 1777 | 1858  | 728  | 1777 | 1840 | 1615  | 0    | 0    | 1634 | 0    | 0    |
| Q Serve(g_s), s  | 2.5  | 10.0 | 10.0  | 5.9  | 11.4 | 11.4 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s  | 13.9 | 10.0 | 10.0  | 15.9 | 11.4 | 11.4 | 1.1   | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  |
| Prop In Lane   | 1.00 |      | 0.04  | 1.00 |      | 0.09 | 0.24  |      | 0.52 | 0.12 |      | 0.67 |
| Lane Grp Cap(c), veh/h   | 448  | 1182 | 1235  | 483  | 1182 | 1224 | 440   | 0    | 0    | 441  | 0    | 0    |
| V/C Ratio(X)   | 0.07 | 0.30 | 0.30  | 0.16 | 0.33 | 0.33 | 0.05  | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h  | 448  | 1182 | 1235  | 483  | 1182 | 1224 | 440   | 0    | 0    | 441  | 0    | 0    |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.87 | 0.87 | 0.87  | 0.82 | 0.82 | 0.82 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh   | 11.6 | 8.4  | 8.4   | 11.7 | 8.6  | 8.6  | 34.2  | 0.0  | 0.0  | 34.3 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh   | 0.3  | 0.6  | 0.5   | 0.6  | 0.6  | 0.6  | 0.2   | 0.0  | 0.0  | 0.2  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.4  | 3.8  | 3.9   | 1.0  | 4.3  | 4.4  | 0.5   | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 11.9 | 9.0  | 9.0   | 12.3 | 9.3  | 9.2  | 34.5  | 0.0  | 0.0  | 34.6 | 0.0  | 0.0  |
| LnGrp LOS  | B    | A    | A     | B    | A    | A    | C     | A    | A    | C    | A    | A    |
| Approach Vol, veh/h  | 758  |      |       |      | 874  |      |       | 21   |      |      | 24   |      |
| Approach Delay, s/veh  | 9.1  |      |       |      | 9.5  |      |       | 34.5 |      |      | 34.6 |      |
| Approach LOS   | A    |      |       |      | A    |      |       | C    |      |      | C    |      |
| Timer - Assigned Phs   | 2    |      | 4     |      | 6    |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 35.0 |      | 85.0  |      | 35.0 |      | 85.0  |      |      |      |      |      |
| Change Period (Y+Rc), s  | 5.1  |      | * 5.2 |      | 5.1  |      | * 5.2 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | 29.9 |      | * 80  |      | 29.9 |      | * 80  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 3.3  |      | 17.9  |      | 3.1  |      | 15.9  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 0.1  |      | 3.8   |      | 0.0  |      | 3.2   |      |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      | 10.0  |      |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      | A     |      |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| User approved pedestrian interval to be less than phase max green.                                 |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | SBTL  | WBTL  | NBTL  | EBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | Max   | C-Max | Max   |
| Maximum Split (s)      | 35    | 85    | 35    | 85    |
| Maximum Split (%)      | 29.2% | 70.8% | 29.2% | 70.8% |
| Minimum Split (s)      | 29.1  | 22.5  | 30.1  | 22.5  |
| Yellow Time (s)        | 3.6   | 4     | 3.6   | 4     |
| All-Red Time (s)       | 1.5   | 1.2   | 1.5   | 1.2   |
| Minimum Initial (s)    | 7     | 10    | 7     | 10    |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 8     | 7     |
| Flash Dont Walk (s)    | 17    | 7     | 17    | 8     |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 6     | 41    | 6     | 41    |
| End Time (s)           | 41    | 6     | 41    | 6     |
| Yield/Force Off (s)    | 35.9  | 0.8   | 35.9  | 0.8   |
| Yield/Force Off 170(s) | 18.9  | 113.8 | 18.9  | 112.8 |
| Local Start Time (s)   | 0     | 35    | 0     | 35    |
| Local Yield (s)        | 29.9  | 114.8 | 29.9  | 114.8 |
| Local Yield 170(s)     | 12.9  | 107.8 | 12.9  | 106.8 |

#### Intersection Summary

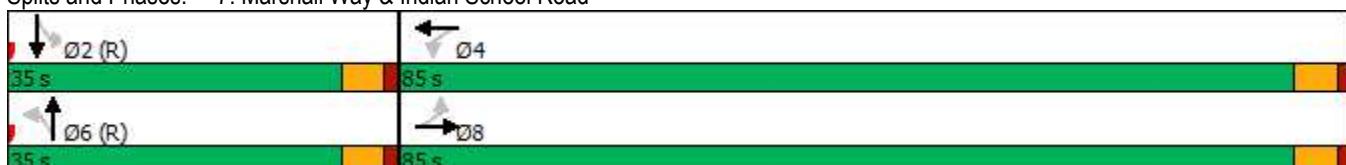
Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 55

Offset: 6 (5%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green

Splits and Phases: 7: Marshall Way & Indian School Road



| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      | ↑     | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)   | 94   | 555  | 56    | 5    | 782  | 108  | 60    | 360  | 74   | 80   | 285  | 60   |
| Future Volume (veh/h)  | 94   | 555  | 56    | 5    | 782  | 108  | 60    | 360  | 74   | 80   | 285  | 60   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 102  | 603  | 61    | 5    | 850  | 117  | 65    | 391  | 80   | 87   | 310  | 65   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 350  | 1515 | 153   | 494  | 1381 | 190  | 306   | 751  | 152  | 269  | 936  | 417  |
| Arrive On Green  | 0.17 | 0.93 | 0.93  | 0.06 | 0.44 | 0.44 | 0.04  | 0.25 | 0.25 | 0.03 | 0.18 | 0.18 |
| Sat Flow, veh/h  | 1781 | 3259 | 329   | 1781 | 3138 | 432  | 1781  | 2943 | 597  | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h   | 102  | 328  | 336   | 5    | 481  | 486  | 65    | 235  | 236  | 87   | 310  | 65   |
| Grp Sat Flow(s), veh/h/ln  | 1781 | 1777 | 1811  | 1781 | 1777 | 1793 | 1781  | 1777 | 1763 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s  | 0.0  | 2.5  | 2.5   | 0.0  | 25.0 | 25.0 | 0.0   | 13.6 | 13.8 | 0.0  | 9.2  | 4.2  |
| Cycle Q Clear(g_c), s  | 0.0  | 2.5  | 2.5   | 0.0  | 25.0 | 25.0 | 0.0   | 13.6 | 13.8 | 0.0  | 9.2  | 4.2  |
| Prop In Lane   | 1.00 |      | 0.18  | 1.00 |      | 0.24 | 1.00  |      | 0.34 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 350  | 826  | 842   | 494  | 782  | 789  | 306   | 453  | 450  | 269  | 936  | 417  |
| V/C Ratio(X)   | 0.29 | 0.40 | 0.40  | 0.01 | 0.62 | 0.62 | 0.21  | 0.52 | 0.53 | 0.32 | 0.33 | 0.16 |
| Avail Cap(c_a), veh/h  | 350  | 826  | 842   | 494  | 782  | 789  | 342   | 453  | 450  | 306  | 936  | 417  |
| HCM Platoon Ratio  | 2.00 | 2.00 | 2.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 0.67 | 0.67 | 0.67 |
| Upstream Filter(l)   | 0.96 | 0.96 | 0.96  | 0.92 | 0.92 | 0.92 | 1.00  | 1.00 | 1.00 | 0.99 | 0.99 | 0.99 |
| Uniform Delay (d), s/veh   | 29.9 | 2.3  | 2.3   | 16.2 | 25.8 | 25.8 | 39.5  | 38.4 | 38.5 | 44.8 | 40.2 | 38.1 |
| Incr Delay (d2), s/veh   | 0.2  | 1.4  | 1.4   | 0.0  | 3.3  | 3.3  | 0.1   | 4.2  | 4.4  | 0.3  | 0.9  | 0.8  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.2  | 1.0  | 1.0   | 0.1  | 11.0 | 11.1 | 1.6   | 6.5  | 6.6  | 2.4  | 4.3  | 1.8  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 30.1 | 3.7  | 3.7   | 16.2 | 29.1 | 29.1 | 39.6  | 42.6 | 42.8 | 45.0 | 41.1 | 38.9 |
| LnGrp LOS  | C    | A    | A     | B    | C    | C    | D     | D    | D    | D    | D    | D    |
| Approach Vol, veh/h  | 766  |      |       |      | 972  |      |       | 536  |      |      | 462  |      |
| Approach Delay, s/veh  | 7.2  |      |       |      | 29.1 |      |       | 42.3 |      |      | 41.5 |      |
| Approach LOS   | A    |      |       |      | C    |      |       | D    |      |      | D    |      |
| Timer - Assigned Phs   | 1    | 2    | 3     | 4    | 5    | 6    | 7     | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 12.5 | 61.0 | 9.5   | 37.0 | 15.5 | 58.0 | 10.5  | 36.0 |      |      |      |      |
| Change Period (Y+Rc), s  | * 5  | 5.2  | * 5.1 | 5.4  | * 5  | 5.2  | * 5.1 | 5.4  |      |      |      |      |
| Max Green Setting (Gmax), s  | * 5  | 55.8 | * 6.9 | 31.6 | * 8  | 52.8 | * 7.9 | 30.6 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 2.0  | 4.5  | 2.0   | 11.2 | 2.0  | 27.0 | 2.0   | 15.8 |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0  | 1.3  | 0.0   | 1.4  | 0.1  | 2.1  | 0.0   | 1.7  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      |       | 27.6 |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      |       | C    |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |

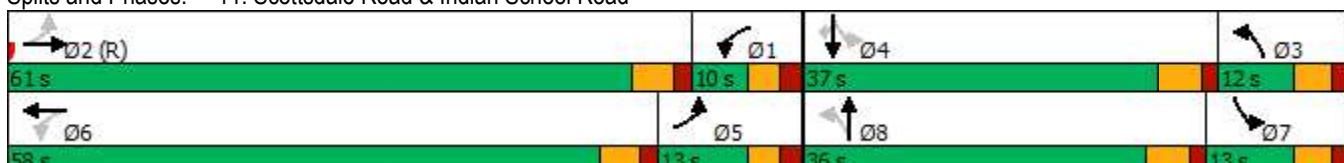


| Phase Number           | 1    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | WBL  | EBTL  | NBL   | SBTL  | EBL   | WBTL  | SBL   | NBTL  |
| Lead/Lag               | Lag  | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Recall Mode            | None | C-Max | None  | Max   | None  | Max   | None  | Max   |
| Maximum Split (s)      | 10   | 61    | 12    | 37    | 13    | 58    | 13    | 36    |
| Maximum Split (%)      | 8.3% | 50.8% | 10.0% | 30.8% | 10.8% | 48.3% | 10.8% | 30.0% |
| Minimum Split (s)      | 10   | 35.2  | 10.1  | 33.4  | 10    | 35.2  | 10.1  | 33.4  |
| Yellow Time (s)        | 3    | 3.6   | 3.3   | 4     | 3     | 3.6   | 3.3   | 4     |
| All-Red Time (s)       | 2    | 1.6   | 1.8   | 1.4   | 2     | 1.6   | 1.8   | 1.4   |
| Minimum Initial (s)    | 5    | 10    | 5     | 10    | 5     | 10    | 5     | 10    |
| Vehicle Extension (s)  | 2    | 1     | 2     | 2     | 2     | 1     | 2     | 2     |
| Minimum Gap (s)        | 3    | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |      | 8     |       | 8     |       | 8     |       | 8     |
| Flash Dont Walk (s)    |      | 22    |       | 20    |       | 22    |       | 20    |
| Dual Entry             | No   | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 61   | 0     | 108   | 71    | 58    | 0     | 107   | 71    |
| End Time (s)           | 71   | 61    | 0     | 108   | 71    | 58    | 0     | 107   |
| Yield/Force Off (s)    | 66   | 55.8  | 114.9 | 102.6 | 66    | 52.8  | 114.9 | 101.6 |
| Yield/Force Off 170(s) | 66   | 33.8  | 114.9 | 82.6  | 66    | 30.8  | 114.9 | 81.6  |
| Local Start Time (s)   | 61   | 0     | 108   | 71    | 58    | 0     | 107   | 71    |
| Local Yield (s)        | 66   | 55.8  | 114.9 | 102.6 | 66    | 52.8  | 114.9 | 101.6 |
| Local Yield 170(s)     | 66   | 33.8  | 114.9 | 82.6  | 66    | 30.8  | 114.9 | 81.6  |

**Intersection Summary**

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 0 (0%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 11: Scottsdale Road &amp; Indian School Road



| Movement   | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|------|-------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑   |      | ↑    | ↑↑    |      |       | ↔    |      | ↓    | ↑    | ↑    |
| Traffic Volume (veh/h)   | 123   | 778  | 11   | 44   | 1000  | 142  | 3     | 2    | 17   | 41   | 0    | 52   |
| Future Volume (veh/h)  | 123   | 778  | 11   | 44   | 1000  | 142  | 3     | 2    | 17   | 41   | 0    | 52   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00 |       | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      |      | No   |       |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 134   | 846  | 12   | 48   | 1087  | 154  | 3     | 2    | 18   | 45   | 0    | 57   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2    | 2     | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 406   | 3052 | 43   | 608  | 2660  | 376  | 39    | 14   | 72   | 145  | 0    | 91   |
| Arrive On Green  | 1.00  | 1.00 | 1.00 | 0.85 | 0.85  | 0.85 | 0.06  | 0.06 | 0.06 | 0.06 | 0.00 | 0.06 |
| Sat Flow, veh/h  | 448   | 3587 | 51   | 644  | 3126  | 442  | 97    | 252  | 1257 | 1483 | 0    | 1585 |
| Grp Volume(v), veh/h   | 134   | 419  | 439  | 48   | 617   | 624  | 23    | 0    | 0    | 45   | 0    | 57   |
| Grp Sat Flow(s), veh/h/ln  | 448   | 1777 | 1861 | 644  | 1777  | 1791 | 1606  | 0    | 0    | 1483 | 0    | 1585 |
| Q Serve(g_s), s  | 5.2   | 0.0  | 0.0  | 1.4  | 9.5   | 9.6  | 0.0   | 0.0  | 0.0  | 1.7  | 0.0  | 4.2  |
| Cycle Q Clear(g_c), s  | 14.7  | 0.0  | 0.0  | 1.4  | 9.5   | 9.6  | 1.6   | 0.0  | 0.0  | 3.3  | 0.0  | 4.2  |
| Prop In Lane   | 1.00  |      | 0.03 | 1.00 |       | 0.25 | 0.13  |      | 0.78 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 406   | 1512 | 1584 | 608  | 1512  | 1524 | 126   | 0    | 0    | 145  | 0    | 91   |
| V/C Ratio(X)   | 0.33  | 0.28 | 0.28 | 0.08 | 0.41  | 0.41 | 0.18  | 0.00 | 0.00 | 0.31 | 0.00 | 0.63 |
| Avail Cap(c_a), veh/h  | 406   | 1512 | 1584 | 608  | 1512  | 1524 | 449   | 0    | 0    | 425  | 0    | 409  |
| HCM Platoon Ratio  | 2.00  | 2.00 | 2.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.94  | 0.94 | 0.94 | 0.56 | 0.56  | 0.56 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh   | 0.7   | 0.0  | 0.0  | 1.4  | 2.0   | 2.0  | 54.1  | 0.0  | 0.0  | 54.8 | 0.0  | 55.3 |
| Incr Delay (d2), s/veh   | 2.0   | 0.4  | 0.4  | 0.1  | 0.5   | 0.5  | 0.3   | 0.0  | 0.0  | 0.4  | 0.0  | 2.6  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.2   | 0.2  | 0.2  | 0.1  | 1.9   | 2.0  | 0.7   | 0.0  | 0.0  | 1.3  | 0.0  | 1.8  |
| Unsig. Movement Delay, s/veh   |       |      |      |      |       |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 2.7   | 0.4  | 0.4  | 1.6  | 2.5   | 2.5  | 54.3  | 0.0  | 0.0  | 55.2 | 0.0  | 57.9 |
| LnGrp LOS  | A     | A    | A    | A    | A     | A    | D     | A    | A    | E    | A    | E    |
| Approach Vol, veh/h  | 992   |      |      | 1289 |       |      | 23    |      |      | 102  |      |      |
| Approach Delay, s/veh  | 0.7   |      |      | 2.5  |       |      | 54.3  |      |      | 56.7 |      |      |
| Approach LOS   | A     |      |      | A    |       |      | D     |      |      | E    |      |      |
| Timer - Assigned Phs   | 2     |      | 4    |      | 6     |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 107.5 |      | 12.5 |      | 107.5 |      | 12.5  |      |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.4 |      | 5.6  |      | * 5.4 |      | * 5.6 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | * 78  |      | 31.0 |      | * 78  |      | * 32  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 16.7  |      | 6.2  |      | 11.6  |      | 3.6   |      |      |      |      |      |
| Green Ext Time (p_c), s  | 5.7   |      | 0.2  |      | 6.8   |      | 0.1   |      |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |      |       |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      | 4.5  |      |       |      |       |      |      |      |      |      |
| HCM 6th LOS  |       |      | A    |      |       |      |       |      |      |      |      |      |
| <b>Notes</b>   |       |      |      |      |       |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |      |       |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | EBTL  | SBTL  | WBTL  | NBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | None  | Max   | None  |
| Maximum Split (s)      | 83.4  | 36.6  | 83.4  | 36.6  |
| Maximum Split (%)      | 69.5% | 30.5% | 69.5% | 30.5% |
| Minimum Split (s)      | 27.4  | 36.6  | 27.4  | 36    |
| Yellow Time (s)        | 4     | 3.6   | 4     | 3.6   |
| All-Red Time (s)       | 1.4   | 2     | 1.4   | 1.4   |
| Minimum Initial (s)    | 10    | 7     | 10    | 7     |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 7     | 7     |
| Flash Dont Walk (s)    | 15    | 24    | 15    | 24    |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 19    | 102.4 | 19    | 102.4 |
| End Time (s)           | 102.4 | 19    | 102.4 | 19    |
| Yield/Force Off (s)    | 97    | 13.4  | 97    | 14    |
| Yield/Force Off 170(s) | 82    | 109.4 | 82    | 110   |
| Local Start Time (s)   | 0     | 83.4  | 0     | 83.4  |
| Local Yield (s)        | 78    | 114.4 | 78    | 115   |
| Local Yield 170(s)     | 63    | 90.4  | 63    | 91    |

#### Intersection Summary

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 19 (16%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 12: Buckboard Trail & Indian School Road



| Movement   | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑↓   |       | ↑     | ↑↑    | ↑     | ↑     | ↑↑    | ↑    | ↑↑↓  | ↑↑   |      |
| Traffic Volume (veh/h)   | 90    | 607   | 36    | 324   | 1153  | 210   | 63    | 383   | 187  | 90   | 147  | 18   |
| Future Volume (veh/h)  | 90    | 607   | 36    | 324   | 1153  | 210   | 63    | 383   | 187  | 90   | 147  | 18   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |       |       | No    |       |       | No    |       |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 98    | 660   | 39    | 352   | 1253  | 228   | 68    | 416   | 203  | 98   | 160  | 20   |
| Peak Hour Factor   | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 141   | 1108  | 65    | 477   | 1605  | 716   | 230   | 814   | 363  | 363  | 653  | 80   |
| Arrive On Green  | 0.05  | 0.43  | 0.43  | 0.17  | 0.45  | 0.45  | 0.13  | 0.23  | 0.23 | 0.10 | 0.21 | 0.21 |
| Sat Flow, veh/h  | 1781  | 3410  | 201   | 1781  | 3554  | 1585  | 1781  | 3554  | 1585 | 3456 | 3184 | 392  |
| Grp Volume(v), veh/h   | 98    | 344   | 355   | 352   | 1253  | 228   | 68    | 416   | 203  | 98   | 88   | 92   |
| Grp Sat Flow(s), veh/h/ln  | 1781  | 1777  | 1834  | 1781  | 1777  | 1585  | 1781  | 1777  | 1585 | 1728 | 1777 | 1800 |
| Q Serve(g_s), s  | 1.7   | 17.7  | 17.8  | 9.5   | 35.8  | 11.1  | 4.1   | 12.3  | 13.6 | 3.1  | 5.0  | 5.1  |
| Cycle Q Clear(g_c), s  | 1.7   | 17.7  | 17.8  | 9.5   | 35.8  | 11.1  | 4.1   | 12.3  | 13.6 | 3.1  | 5.0  | 5.1  |
| Prop In Lane   | 1.00  |       | 0.11  | 1.00  |       | 1.00  | 1.00  |       | 1.00 | 1.00 |      | 0.22 |
| Lane Grp Cap(c), veh/h   | 141   | 577   | 596   | 477   | 1605  | 716   | 230   | 814   | 363  | 363  | 364  | 369  |
| V/C Ratio(X)   | 0.70  | 0.60  | 0.60  | 0.74  | 0.78  | 0.32  | 0.30  | 0.51  | 0.56 | 0.27 | 0.24 | 0.25 |
| Avail Cap(c_a), veh/h  | 219   | 577   | 596   | 555   | 1605  | 716   | 230   | 814   | 363  | 363  | 364  | 369  |
| HCM Platoon Ratio  | 1.33  | 1.33  | 1.33  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.97  | 0.97  | 0.97  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 54.6  | 28.0  | 28.0  | 39.9  | 27.9  | 21.1  | 47.3  | 40.4  | 40.9 | 49.5 | 39.9 | 40.0 |
| Incr Delay (d2), s/veh   | 2.2   | 4.3   | 4.2   | 3.4   | 3.8   | 1.2   | 0.3   | 2.3   | 6.1  | 0.1  | 1.6  | 1.6  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.9   | 7.5   | 7.8   | 9.8   | 15.5  | 4.3   | 1.9   | 5.6   | 5.9  | 1.4  | 2.3  | 2.4  |
| Unsig. Movement Delay, s/veh   |       |       |       |       |       |       |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 56.8  | 32.4  | 32.3  | 43.3  | 31.7  | 22.2  | 47.6  | 42.7  | 47.0 | 49.6 | 41.5 | 41.6 |
| LnGrp LOS  | E     | C     | C     | D     | C     | C     | D     | D     | D    | D    | D    | D    |
| Approach Vol, veh/h  | 797   |       |       |       | 1833  |       |       | 687   |      |      | 278  |      |
| Approach Delay, s/veh  | 35.3  |       |       |       | 32.8  |       |       | 44.4  |      |      | 44.4 |      |
| Approach LOS   | D     |       |       |       | C     |       |       | D     |      |      | D    |      |
| Timer - Assigned Phs   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 20.8  | 29.7  | 10.1  | 59.4  | 17.9  | 32.6  | 25.3  | 44.2  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.3 | * 5.1 | * 5.3 | * 5.2 | * 5.3 | * 5.1 | * 5.3 | * 5.2 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 10  | * 25  | * 10  | * 54  | * 7.3 | * 28  | * 25  | * 39  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 6.1   | 7.1   | 3.7   | 37.8  | 5.1   | 15.6  | 11.5  | 19.8  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 0.1   | 0.1   | 1.7   | 0.0   | 0.4   | 0.4   | 0.6   |      |      |      |      |
| <b>Intersection Summary</b>  |       |       |       |       |       |       |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |       |       | 36.5  |       |       |       |       |      |      |      |      |
| HCM 6th LOS  |       |       |       | D     |       |       |       |       |      |      |      |      |
| <b>Notes</b>   |       |       |       |       |       |       |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |       |       |       |       |       |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBTL  | SBL   | NBT   | WBL   | EBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 15.5  | 29.7  | 15.4  | 59.4  | 12.6  | 32.6  | 30.6  | 44.2  |
| Maximum Split (%)      | 12.9% | 24.8% | 12.8% | 49.5% | 10.5% | 27.2% | 25.5% | 36.8% |
| Minimum Split (s)      | 10.3  | 29.1  | 10.3  | 28.2  | 10.3  | 29.1  | 10.3  | 30.2  |
| Yellow Time (s)        | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.1   | 2     | 1.2   | 2     | 1.1   | 2     | 1.2   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 20    |       | 19    |       | 20    |       | 21    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 28.7  | 119   | 103.6 | 44.2  | 31.6  | 119   | 88.4  | 44.2  |
| End Time (s)           | 44.2  | 28.7  | 119   | 103.6 | 44.2  | 31.6  | 119   | 88.4  |
| Yield/Force Off (s)    | 38.9  | 23.6  | 113.7 | 98.4  | 38.9  | 26.5  | 113.7 | 83.2  |
| Yield/Force Off 170(s) | 38.9  | 3.6   | 113.7 | 79.4  | 38.9  | 6.5   | 113.7 | 62.2  |
| Local Start Time (s)   | 29.7  | 0     | 104.6 | 45.2  | 32.6  | 0     | 89.4  | 45.2  |
| Local Yield (s)        | 39.9  | 24.6  | 114.7 | 99.4  | 39.9  | 27.5  | 114.7 | 84.2  |
| Local Yield 170(s)     | 39.9  | 4.6   | 114.7 | 80.4  | 39.9  | 7.5   | 114.7 | 63.2  |

**Intersection Summary**

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 119 (99%), Referenced to phase 2:SBT and 6:NBT, Start of Green |                      |

Splits and Phases: 13: Drinkwater Boulevard &amp; Indian School Road



**Intersection**

Int Delay, s/veh 0.8

| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | W    |      | ↑↑   |      | ↑    | ↑↑↑  |
| Traffic Vol, veh/h       | 30   | 81   | 656  | 15   | 18   | 786  |
| Future Vol, veh/h        | 30   | 81   | 656  | 15   | 18   | 786  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | 100  | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | 0    | -    | 0    | -    | -    | 0    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 33   | 88   | 713  | 16   | 20   | 854  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |       |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 1103   | 365    | 0      | 0 | 729   |
| Stage 1              | 721    | -      | -      | - | -     |
| Stage 2              | 382    | -      | -      | - | -     |
| Critical Hdwy        | 6.29   | 6.94   | -      | - | 4.14  |
| Critical Hdwy Stg 1  | 5.84   | -      | -      | - | -     |
| Critical Hdwy Stg 2  | 6.04   | -      | -      | - | -     |
| Follow-up Hdwy       | 3.67   | 3.32   | -      | - | 2.22  |
| Pot Cap-1 Maneuver   | *730   | *820   | -      | - | *1227 |
| Stage 1              | *742   | -      | -      | - | -     |
| Stage 2              | *624   | -      | -      | - | -     |
| Platoon blocked, %   | 1      | 1      | -      | - | 1     |
| Mov Cap-1 Maneuver   | *718   | *820   | -      | - | *1227 |
| Mov Cap-2 Maneuver   | *684   | -      | -      | - | -     |
| Stage 1              | *742   | -      | -      | - | -     |
| Stage 2              | *614   | -      | -      | - | -     |

| Approach             | WB   | NB | SB  |
|----------------------|------|----|-----|
| HCM Control Delay, s | 10.5 | 0  | 0.2 |
| HCM LOS              | B    |    |     |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL    | SBT |
|-----------------------|-----|-----|-------|--------|-----|
| Capacity (veh/h)      | -   | -   | 778   | * 1227 | -   |
| HCM Lane V/C Ratio    | -   | -   | 0.155 | 0.016  | -   |
| HCM Control Delay (s) | -   | -   | 10.5  | 8      | -   |
| HCM Lane LOS          | -   | -   | B     | A      | -   |
| HCM 95th %tile Q(veh) | -   | -   | 0.5   | 0      | -   |

**Notes**

~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

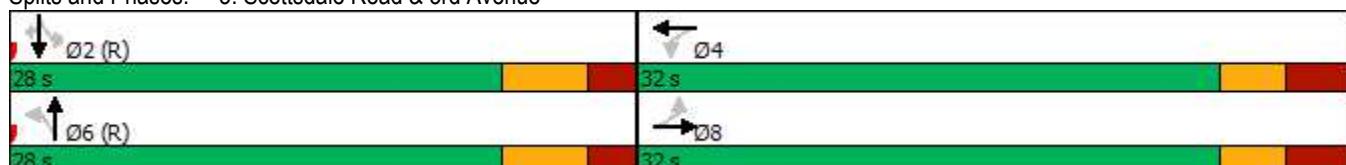
| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 2.6    |        |        |      |       |       |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL   | SBR   |
| Lane Configurations      |        |        |        |      |       |       |
| Traffic Vol, veh/h       | 25     | 56     | 90     | 17   | 21    | 24    |
| Future Vol, veh/h        | 25     | 56     | 90     | 17   | 21    | 24    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | -      | -      | -    | 0     | -     |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0     | -     |
| Grade, %                 | -      | 0      | 0      | -    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 27     | 61     | 98     | 18   | 23    | 26    |
| Major/Minor              | Major1 | Major2 | Minor2 |      |       |       |
| Conflicting Flow All     | 116    | 0      | -      | 0    | 222   | 107   |
| Stage 1                  | -      | -      | -      | -    | 107   | -     |
| Stage 2                  | -      | -      | -      | -    | 115   | -     |
| Critical Hdwy            | 4.12   | -      | -      | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | 2.218  | -      | -      | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | 1493   | -      | -      | -    | 806   | 1003  |
| Stage 1                  | -      | -      | -      | -    | 948   | -     |
| Stage 2                  | -      | -      | -      | -    | 910   | -     |
| Platoon blocked, %       | 1      | -      | -      | -    | 1     | 1     |
| Mov Cap-1 Maneuver       | 1493   | -      | -      | -    | 790   | 1003  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 790   | -     |
| Stage 1                  | -      | -      | -      | -    | 930   | -     |
| Stage 2                  | -      | -      | -      | -    | 910   | -     |
| Approach                 | EB     | WB     | SB     |      |       |       |
| HCM Control Delay, s     | 2.3    | 0      | 9.3    |      |       |       |
| HCM LOS                  |        |        | A      |      |       |       |
| Minor Lane/Major Mvmt    | EBL    | EBT    | WBT    | WBR  | SBLn1 | SBLn2 |
| Capacity (veh/h)         | 1493   | -      | -      | -    | 891   | -     |
| HCM Lane V/C Ratio       | 0.018  | -      | -      | -    | 0.055 | -     |
| HCM Control Delay (s)    | 7.5    | 0      | -      | -    | 9.3   | -     |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0.1    | -      | -      | -    | 0.2   | -     |

| Movement                              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations                   | ↑    | ↑    |      | ↑    | ↑    |      | ↑    | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)                | 56   | 26   | 101  | 63   | 52   | 189  | 60   | 616  | 28   | 34   | 823  | 51   |
| Future Volume (veh/h)                 | 56   | 26   | 101  | 63   | 52   | 189  | 60   | 616  | 28   | 34   | 823  | 51   |
| Initial Q (Q <sub>b</sub> ), veh      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                   | 1.00 |      |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj                      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                 | No   |      |      | No   |      |      | No   |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln                | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h                  | 61   | 28   | 110  | 68   | 57   | 205  | 65   | 670  | 30   | 37   | 895  | 55   |
| Peak Hour Factor                      | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %                  | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h                            | 225  | 79   | 312  | 331  | 85   | 307  | 364  | 1943 | 87   | 538  | 1993 | 889  |
| Arrive On Green                       | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 1.00 | 1.00 | 1.00 | 0.56 | 0.56 | 0.56 |
| Sat Flow, veh/h                       | 1117 | 332  | 1304 | 1251 | 357  | 1283 | 590  | 3464 | 155  | 746  | 3554 | 1585 |
| Grp Volume(v), veh/h                  | 61   | 0    | 138  | 68   | 0    | 262  | 65   | 343  | 357  | 37   | 895  | 55   |
| Grp Sat Flow(s), veh/h/ln             | 1117 | 0    | 1636 | 1251 | 0    | 1639 | 590  | 1777 | 1842 | 746  | 1777 | 1585 |
| Q Serve(g_s), s                       | 3.1  | 0.0  | 4.2  | 2.9  | 0.0  | 8.7  | 2.2  | 0.0  | 0.0  | 1.4  | 8.9  | 0.9  |
| Cycle Q Clear(g_c), s                 | 11.8 | 0.0  | 4.2  | 7.1  | 0.0  | 8.7  | 11.0 | 0.0  | 0.0  | 1.4  | 8.9  | 0.9  |
| Prop In Lane                          | 1.00 |      |      | 0.80 | 1.00 |      | 0.78 | 1.00 |      | 0.08 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h                | 225  | 0    | 391  | 331  | 0    | 392  | 364  | 997  | 1033 | 538  | 1993 | 889  |
| V/C Ratio(X)                          | 0.27 | 0.00 | 0.35 | 0.21 | 0.00 | 0.67 | 0.18 | 0.34 | 0.35 | 0.07 | 0.45 | 0.06 |
| Avail Cap(c_a), veh/h                 | 442  | 0    | 709  | 574  | 0    | 710  | 364  | 997  | 1033 | 538  | 1993 | 889  |
| HCM Platoon Ratio                     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                    | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.66 | 0.66 | 0.66 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh              | 26.0 | 0.0  | 19.0 | 21.9 | 0.0  | 20.7 | 1.5  | 0.0  | 0.0  | 6.1  | 7.7  | 6.0  |
| Incr Delay (d2), s/veh                | 0.2  | 0.0  | 0.2  | 0.1  | 0.0  | 0.7  | 0.7  | 0.6  | 0.6  | 0.2  | 0.7  | 0.1  |
| Initial Q Delay(d3), s/veh            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln             | 0.8  | 0.0  | 1.5  | 0.8  | 0.0  | 3.2  | 0.1  | 0.2  | 0.2  | 0.2  | 2.9  | 0.3  |
| Unsig. Movement Delay, s/veh          |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                 | 26.3 | 0.0  | 19.2 | 22.0 | 0.0  | 21.4 | 2.2  | 0.6  | 0.6  | 6.3  | 8.5  | 6.1  |
| LnGrp LOS                             | C    | A    | B    | C    | A    | C    | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                   | 199  |      |      | 330  |      |      | 765  |      |      | 987  |      |      |
| Approach Delay, s/veh                 | 21.3 |      |      | 21.5 |      |      | 0.7  |      |      | 8.3  |      |      |
| Approach LOS                          | C    |      |      | C    |      |      | A    |      |      | A    |      |      |
| Timer - Assigned Phs                  | 2    |      | 4    |      | 6    |      | 8    |      |      |      |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s | 39.7 |      | 20.3 |      | 39.7 |      | 20.3 |      |      |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s  | 6.0  |      | 6.0  |      | 6.0  |      | 6.0  |      |      |      |      |      |
| Max Green Setting (Gmax), s           | 22.0 |      | 26.0 |      | 22.0 |      | 26.0 |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s          | 10.9 |      | 10.7 |      | 13.0 |      | 13.8 |      |      |      |      |      |
| Green Ext Time (p_c), s               | 2.3  |      | 1.1  |      | 1.5  |      | 0.5  |      |      |      |      |      |
| <b>Intersection Summary</b>           |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                    |      |      | 8.8  |      |      |      |      |      |      |      |      |      |
| HCM 6th LOS                           |      |      | A    |      |      |      |      |      |      |      |      |      |

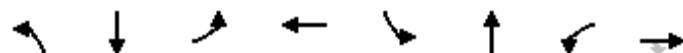


| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | SBTL                 | WBTL  | NBTL  | EBTL  |
| Lead/Lag  |                      |       |       |       |
| Lead-Lag Optimize   |                      |       |       |       |
| Recall Mode   | C-Max                | None  | C-Max | None  |
| Maximum Split (s)   | 28                   | 32    | 28    | 32    |
| Maximum Split (%)   | 46.7%                | 53.3% | 46.7% | 53.3% |
| Minimum Split (s)   | 23                   | 32    | 23    | 32    |
| Yellow Time (s)   | 3.8                  | 3     | 3.8   | 3     |
| All-Red Time (s)  | 2.2                  | 3     | 2.2   | 3     |
| Minimum Initial (s)   | 10                   | 10    | 10    | 10    |
| Vehicle Extension (s)   | 1                    | 2     | 1     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)  | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 7     | 7     |
| Flash Dont Walk (s)   | 10                   | 19    | 10    | 19    |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 27                   | 55    | 27    | 55    |
| End Time (s)  | 55                   | 27    | 55    | 27    |
| Yield/Force Off (s)   | 49                   | 21    | 49    | 21    |
| Yield/Force Off 170(s)  | 39                   | 2     | 39    | 2     |
| Local Start Time (s)  | 0                    | 28    | 0     | 28    |
| Local Yield (s)   | 22                   | 54    | 22    | 54    |
| Local Yield 170(s)  | 12                   | 35    | 12    | 35    |
| <b>Intersection Summary</b>   |                      |       |       |       |
| Cycle Length  | 60                   |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 60                   |       |       |       |
| Offset: 27 (45%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green |                      |       |       |       |

Splits and Phases: 5: Scottsdale Road & 3rd Avenue



| Movement   | EBL   | EBT  | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|-------|-------|------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑↑    | ↑↑   | ↑    | ↑↑    | ↑↑    | 60   | 98    | 372   | 47   | 82   | 568  | 172  |
| Traffic Volume (veh/h)   | 228   | 739  | 64   | 70    | 652   | 60   | 98    | 372   | 47   | 82   | 568  | 172  |
| Future Volume (veh/h)  | 228   | 739  | 64   | 70    | 652   | 60   | 98    | 372   | 47   | 82   | 568  | 172  |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00  |       | 1.00 | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      | No   |       | No    |      | No    |       | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870  | 1870  | 1870 | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 248   | 803  | 70   | 76    | 709   | 65   | 107   | 404   | 51   | 89   | 617  | 187  |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2     | 2     | 2    | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 363   | 1303 | 581  | 133   | 979   | 90   | 251   | 927   | 116  | 218  | 1061 | 315  |
| Arrive On Green  | 0.11  | 0.37 | 0.37 | 0.03  | 0.20  | 0.20 | 0.14  | 0.29  | 0.29 | 0.12 | 0.27 | 0.27 |
| Sat Flow, veh/h  | 3456  | 3554 | 1585 | 3456  | 3291  | 302  | 1781  | 3177  | 399  | 1781 | 3905 | 1160 |
| Grp Volume(v), veh/h   | 248   | 803  | 70   | 76    | 383   | 391  | 107   | 225   | 230  | 89   | 536  | 268  |
| Grp Sat Flow(s), veh/h/ln  | 1728  | 1777 | 1585 | 1728  | 1777  | 1816 | 1781  | 1777  | 1799 | 1781 | 1702 | 1661 |
| Q Serve(g_s), s  | 8.3   | 22.2 | 2.2  | 2.6   | 24.2  | 24.2 | 6.6   | 12.3  | 12.5 | 5.5  | 16.3 | 16.8 |
| Cycle Q Clear(g_c), s  | 8.3   | 22.2 | 2.2  | 2.6   | 24.2  | 24.2 | 6.6   | 12.3  | 12.5 | 5.5  | 16.3 | 16.8 |
| Prop In Lane   | 1.00  |      | 1.00 | 1.00  |       | 0.17 | 1.00  |       | 0.22 | 1.00 |      | 0.70 |
| Lane Grp Cap(c), veh/h   | 363   | 1303 | 581  | 133   | 529   | 540  | 251   | 518   | 525  | 218  | 925  | 451  |
| V/C Ratio(X)   | 0.68  | 0.62 | 0.12 | 0.57  | 0.72  | 0.72 | 0.43  | 0.43  | 0.44 | 0.41 | 0.58 | 0.59 |
| Avail Cap(c_a), veh/h  | 423   | 1303 | 581  | 190   | 529   | 540  | 251   | 518   | 525  | 218  | 925  | 451  |
| HCM Platoon Ratio  | 1.00  | 1.00 | 1.00 | 0.67  | 0.67  | 0.67 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 1.00  | 1.00 | 1.00 | 0.91  | 0.91  | 0.91 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 51.8  | 31.1 | 10.1 | 57.5  | 43.4  | 43.4 | 47.1  | 34.5  | 34.5 | 48.6 | 37.8 | 37.9 |
| Incr Delay (d2), s/veh   | 2.5   | 2.2  | 0.4  | 1.3   | 7.6   | 7.5  | 0.4   | 2.6   | 2.7  | 0.5  | 2.6  | 5.6  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 3.7   | 9.7  | 1.4  | 1.2   | 12.1  | 12.4 | 2.9   | 5.7   | 5.8  | 2.5  | 7.1  | 7.5  |
| Unsig. Movement Delay, s/veh   |       |      |      |       |       |      |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 54.3  | 33.3 | 10.5 | 58.8  | 51.1  | 51.0 | 47.6  | 37.1  | 37.2 | 49.1 | 40.4 | 43.6 |
| LnGrp LOS  | D     | C    | B    | E     | D     | D    | D     | D     | D    | D    | D    | D    |
| Approach Vol, veh/h  | 1121  |      |      |       | 850   |      |       | 562   |      |      | 893  |      |
| Approach Delay, s/veh  | 36.5  |      |      |       | 51.7  |      |       | 39.1  |      |      | 42.2 |      |
| Approach LOS   | D     |      |      |       | D     |      |       | D     |      |      | D    |      |
| Timer - Assigned Phs   | 1     | 2    | 3    | 4     | 5     | 6    | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 22.5  | 38.3 | 18.0 | 41.2  | 20.3  | 40.5 | 9.8   | 49.4  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.6 | 5.7  | 5.4  | * 5.5 | * 5.6 | 5.5  | * 5.2 | * 5.4 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 15  | 32.6 | 14.7 | * 36  | * 13  | 35.0 | * 6.6 | * 44  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 8.6   | 18.8 | 10.3 | 26.2  | 7.5   | 14.5 | 4.6   | 24.2  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.1   | 1.8  | 0.2  | 1.3   | 0.0   | 0.8  | 0.0   | 2.1   |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |       |       |      |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      |      | 42.2  |       |      |       |       |      |      |      |      |
| HCM 6th LOS  |       |      |      | D     |       |      |       |       |      |      |      |      |
| <b>Notes</b>   |       |      |      |       |       |      |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |       |       |      |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7    | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|------|-------|
| Movement               | NBL   | SBT   | EBL   | WBT   | SBL   | NBT   | WBL  | EBT   |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lead | Lag   |
| Lead-Lag Optimize      | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes  | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None | Max   |
| Maximum Split (s)      | 20.5  | 38.3  | 20    | 41.2  | 18.3  | 40.5  | 11.8 | 49.4  |
| Maximum Split (%)      | 17.1% | 31.9% | 16.7% | 34.3% | 15.3% | 33.8% | 9.8% | 41.2% |
| Minimum Split (s)      | 10.6  | 33.7  | 10.3  | 31.5  | 10.6  | 37.5  | 10.2 | 31.4  |
| Yellow Time (s)        | 3.6   | 4.4   | 3.3   | 4     | 3.6   | 4.4   | 3.3  | 4     |
| All-Red Time (s)       | 2     | 1.3   | 2     | 1.5   | 2     | 1.1   | 1.9  | 1.4   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5    | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 1     | 2     | 1     | 2    | 1     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3    | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |      | 4     |
| Flash Dont Walk (s)    |       | 24    |       | 22    |       | 28    |      | 22    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes  | Yes   |
| Start Time (s)         | 43.3  | 5     | 105   | 63.8  | 45.5  | 5     | 63.8 | 75.6  |
| End Time (s)           | 63.8  | 43.3  | 5     | 105   | 63.8  | 45.5  | 75.6 | 5     |
| Yield/Force Off (s)    | 58.2  | 37.6  | 119.7 | 99.5  | 58.2  | 40    | 70.4 | 119.6 |
| Yield/Force Off 170(s) | 58.2  | 13.6  | 119.7 | 77.5  | 58.2  | 12    | 70.4 | 97.6  |
| Local Start Time (s)   | 38.3  | 0     | 100   | 58.8  | 40.5  | 0     | 58.8 | 70.6  |
| Local Yield (s)        | 53.2  | 32.6  | 114.7 | 94.5  | 53.2  | 35    | 65.4 | 114.6 |
| Local Yield 170(s)     | 53.2  | 8.6   | 114.7 | 72.5  | 53.2  | 7     | 65.4 | 92.6  |

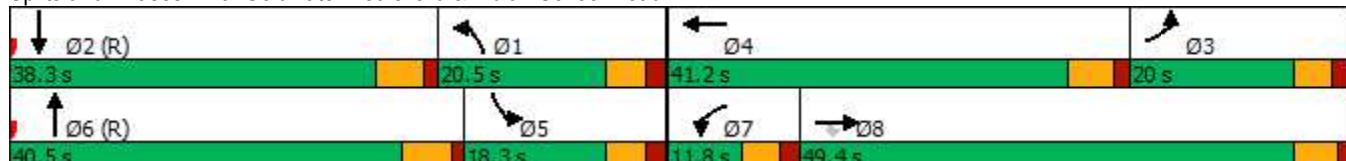
**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 5 (4%), Referenced to phase 2:SBT and 6:NBT, Start of Green

**Splits and Phases: 6: Goldwater Boulevard & Indian School Road**

| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      |       | ↔    |      |      | ↔    |      |
| Traffic Volume (veh/h)   | 34   | 821  | 34    | 61   | 789  | 63   | 19    | 19   | 34   | 15   | 37   | 51   |
| Future Volume (veh/h)  | 34   | 821  | 34    | 61   | 789  | 63   | 19    | 19   | 34   | 15   | 37   | 51   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 37   | 892  | 37    | 66   | 858  | 68   | 21    | 21   | 37   | 16   | 40   | 55   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 351  | 2138 | 89    | 350  | 2051 | 163  | 143   | 147  | 222  | 83   | 202  | 246  |
| Arrive On Green  | 0.62 | 0.62 | 0.62  | 0.62 | 0.62 | 0.62 | 0.30  | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Sat Flow, veh/h  | 604  | 3477 | 144   | 602  | 3335 | 264  | 351   | 492  | 743  | 162  | 675  | 822  |
| Grp Volume(v), veh/h   | 37   | 456  | 473   | 66   | 457  | 469  | 79    | 0    | 0    | 111  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln  | 604  | 1777 | 1844  | 602  | 1777 | 1823 | 1586  | 0    | 0    | 1659 | 0    | 0    |
| Q Serve(g_s), s  | 4.1  | 15.9 | 15.9  | 7.6  | 16.0 | 16.0 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s  | 20.1 | 15.9 | 15.9  | 23.6 | 16.0 | 16.0 | 4.0   | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  |
| Prop In Lane   | 1.00 |      | 0.08  | 1.00 |      | 0.15 | 0.27  |      | 0.47 | 0.14 |      | 0.50 |
| Lane Grp Cap(c), veh/h   | 351  | 1093 | 1134  | 350  | 1093 | 1121 | 512   | 0    | 0    | 531  | 0    | 0    |
| V/C Ratio(X)   | 0.11 | 0.42 | 0.42  | 0.19 | 0.42 | 0.42 | 0.15  | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h  | 351  | 1093 | 1134  | 350  | 1093 | 1121 | 512   | 0    | 0    | 531  | 0    | 0    |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.81 | 0.81 | 0.81  | 0.78 | 0.78 | 0.78 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh   | 17.2 | 12.0 | 12.0  | 18.1 | 12.0 | 12.0 | 30.9  | 0.0  | 0.0  | 31.5 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh   | 0.5  | 1.0  | 0.9   | 0.9  | 0.9  | 0.9  | 0.6   | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.6  | 6.2  | 6.5   | 1.1  | 6.3  | 6.4  | 1.8   | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 17.7 | 12.9 | 12.9  | 19.0 | 12.9 | 12.9 | 31.5  | 0.0  | 0.0  | 32.4 | 0.0  | 0.0  |
| LnGrp LOS  | B    | B    | B     | B    | B    | B    | C     | A    | A    | C    | A    | A    |
| Approach Vol, veh/h  | 966  |      |       |      | 992  |      |       | 79   |      |      | 111  |      |
| Approach Delay, s/veh  | 13.1 |      |       |      | 13.3 |      |       | 31.5 |      |      | 32.4 |      |
| Approach LOS   | B    |      |       |      | B    |      |       | C    |      |      | C    |      |
| Timer - Assigned Phs   | 2    |      | 4     |      | 6    |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 41.0 |      | 79.0  |      | 41.0 |      | 79.0  |      |      |      |      |      |
| Change Period (Y+Rc), s  | 5.1  |      | * 5.2 |      | 5.1  |      | * 5.2 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | 35.9 |      | * 74  |      | 35.9 |      | * 74  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 7.8  |      | 25.6  |      | 6.0  |      | 22.1  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 0.4  |      | 4.7   |      | 0.3  |      | 4.4   |      |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      | 14.9  |      |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      | B     |      |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| User approved pedestrian interval to be less than phase max green.                                 |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | SBTL  | WBTL  | NBTL  | EBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | Max   | C-Max | Max   |
| Maximum Split (s)      | 41    | 79    | 41    | 79    |
| Maximum Split (%)      | 34.2% | 65.8% | 34.2% | 65.8% |
| Minimum Split (s)      | 29.1  | 22.5  | 30.1  | 22.5  |
| Yellow Time (s)        | 3.6   | 4     | 3.6   | 4     |
| All-Red Time (s)       | 1.5   | 1.2   | 1.5   | 1.2   |
| Minimum Initial (s)    | 7     | 10    | 7     | 10    |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 8     | 7     |
| Flash Dont Walk (s)    | 17    | 7     | 17    | 8     |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 112   | 33    | 112   | 33    |
| End Time (s)           | 33    | 112   | 33    | 112   |
| Yield/Force Off (s)    | 27.9  | 106.8 | 27.9  | 106.8 |
| Yield/Force Off 170(s) | 10.9  | 99.8  | 10.9  | 98.8  |
| Local Start Time (s)   | 0     | 41    | 0     | 41    |
| Local Yield (s)        | 35.9  | 114.8 | 35.9  | 114.8 |
| Local Yield 170(s)     | 18.9  | 107.8 | 18.9  | 106.8 |

#### Intersection Summary

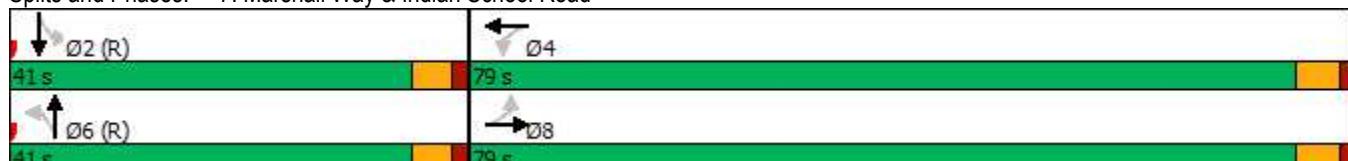
Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 60

Offset: 112 (93%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green

Splits and Phases: 7: Marshall Way & Indian School Road



| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      | ↑     | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)   | 111  | 692  | 113   | 170  | 701  | 175  | 60    | 457  | 117  | 203  | 663  | 147  |
| Future Volume (veh/h)  | 111  | 692  | 113   | 170  | 701  | 175  | 60    | 457  | 117  | 203  | 663  | 147  |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      | No    |      | No   |      | No    |      | No   | No   | No   | No   |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 121  | 752  | 123   | 185  | 762  | 190  | 65    | 497  | 127  | 221  | 721  | 160  |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 288  | 1065 | 174   | 351  | 1099 | 274  | 174   | 669  | 170  | 305  | 1113 | 497  |
| Arrive On Green  | 0.03 | 0.11 | 0.11  | 0.13 | 0.39 | 0.39 | 0.04  | 0.24 | 0.24 | 0.15 | 0.42 | 0.42 |
| Sat Flow, veh/h  | 1781 | 3057 | 500   | 1781 | 2818 | 703  | 1781  | 2806 | 713  | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h   | 121  | 437  | 438   | 185  | 480  | 472  | 65    | 314  | 310  | 221  | 721  | 160  |
| Grp Sat Flow(s), veh/h/ln  | 1781 | 1777 | 1780  | 1781 | 1777 | 1744 | 1781  | 1777 | 1742 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s  | 0.0  | 28.4 | 28.4  | 3.0  | 27.1 | 27.1 | 0.0   | 19.6 | 19.8 | 6.7  | 19.4 | 8.2  |
| Cycle Q Clear(g_c), s  | 0.0  | 28.4 | 28.4  | 3.0  | 27.1 | 27.1 | 0.0   | 19.6 | 19.8 | 6.7  | 19.4 | 8.2  |
| Prop In Lane   | 1.00 |      | 0.28  | 1.00 |      | 0.40 | 1.00  |      | 0.41 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 288  | 619  | 620   | 351  | 693  | 680  | 174   | 423  | 415  | 305  | 1113 | 497  |
| V/C Ratio(X)   | 0.42 | 0.71 | 0.71  | 0.53 | 0.69 | 0.69 | 0.37  | 0.74 | 0.75 | 0.73 | 0.65 | 0.32 |
| Avail Cap(c_a), veh/h  | 288  | 619  | 620   | 351  | 693  | 680  | 210   | 423  | 415  | 341  | 1113 | 497  |
| HCM Platoon Ratio  | 0.33 | 0.33 | 0.33  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.33 | 1.33 | 1.33 |
| Upstream Filter(l)   | 0.91 | 0.91 | 0.91  | 0.91 | 0.91 | 0.91 | 1.00  | 1.00 | 1.00 | 0.91 | 0.91 | 0.91 |
| Uniform Delay (d), s/veh   | 48.8 | 47.2 | 47.2  | 43.9 | 30.6 | 30.6 | 52.3  | 42.3 | 42.4 | 45.9 | 29.7 | 26.4 |
| Incr Delay (d2), s/veh   | 0.3  | 6.1  | 6.1   | 0.7  | 5.2  | 5.2  | 0.5   | 11.1 | 11.6 | 4.8  | 2.7  | 1.6  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 3.5  | 14.6 | 14.6  | 5.0  | 12.3 | 12.1 | 1.9   | 10.0 | 9.9  | 6.4  | 8.1  | 3.2  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 49.1 | 53.3 | 53.3  | 44.6 | 35.8 | 35.8 | 52.8  | 53.4 | 54.0 | 50.7 | 32.4 | 28.0 |
| LnGrp LOS  | D    | D    | D     | D    | D    | D    | D     | D    | D    | D    | C    | C    |
| Approach Vol, veh/h  | 996  |      |       |      | 1137 |      |       | 689  |      |      | 1102 |      |
| Approach Delay, s/veh  | 52.8 |      |       |      | 37.2 |      |       | 53.6 |      |      | 35.4 |      |
| Approach LOS   | D    |      |       |      | D    |      |       | D    |      |      | D    |      |
| Timer - Assigned Phs   | 1    | 2    | 3     | 4    | 5    | 6    | 7     | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 20.5 | 47.0 | 9.5   | 43.0 | 15.5 | 52.0 | 18.5  | 34.0 |      |      |      |      |
| Change Period (Y+Rc), s  | * 5  | 5.2  | * 5.1 | 5.4  | * 5  | 5.2  | * 5.1 | 5.4  |      |      |      |      |
| Max Green Setting (Gmax), s  | * 13 | 41.8 | * 6.9 | 37.6 | * 8  | 46.8 | * 16  | 28.6 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 5.0  | 30.4 | 2.0   | 21.4 | 2.0  | 29.1 | 8.7   | 21.8 |      |      |      |      |
| Green Ext Time (p_c), s  | 0.2  | 1.6  | 0.0   | 3.4  | 0.1  | 2.0  | 0.2   | 1.6  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      |       | 43.5 |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      |       | D    |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |

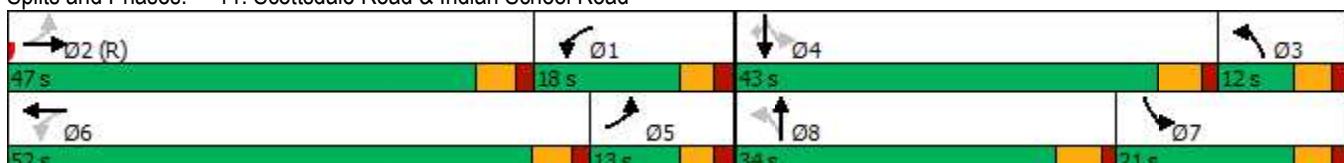


| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | WBL   | EBTL  | NBL   | SBTL  | EBL   | WBTL  | SBL   | NBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | Max   | None  | Max   |
| Maximum Split (s)      | 18    | 47    | 12    | 43    | 13    | 52    | 21    | 34    |
| Maximum Split (%)      | 15.0% | 39.2% | 10.0% | 35.8% | 10.8% | 43.3% | 17.5% | 28.3% |
| Minimum Split (s)      | 10    | 35.2  | 10.1  | 33.4  | 10    | 35.2  | 10.1  | 33.4  |
| Yellow Time (s)        | 3     | 3.6   | 3.3   | 4     | 3     | 3.6   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.6   | 1.8   | 1.4   | 2     | 1.6   | 1.8   | 1.4   |
| Minimum Initial (s)    | 5     | 10    | 5     | 10    | 5     | 10    | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 2     | 2     | 1     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 8     |       | 8     |       | 8     |       | 8     |
| Flash Dont Walk (s)    |       | 22    |       | 20    |       | 22    |       | 20    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 47    | 0     | 108   | 65    | 52    | 0     | 99    | 65    |
| End Time (s)           | 65    | 47    | 0     | 108   | 65    | 52    | 0     | 99    |
| Yield/Force Off (s)    | 60    | 41.8  | 114.9 | 102.6 | 60    | 46.8  | 114.9 | 93.6  |
| Yield/Force Off 170(s) | 60    | 19.8  | 114.9 | 82.6  | 60    | 24.8  | 114.9 | 73.6  |
| Local Start Time (s)   | 47    | 0     | 108   | 65    | 52    | 0     | 99    | 65    |
| Local Yield (s)        | 60    | 41.8  | 114.9 | 102.6 | 60    | 46.8  | 114.9 | 93.6  |
| Local Yield 170(s)     | 60    | 19.8  | 114.9 | 82.6  | 60    | 24.8  | 114.9 | 73.6  |

**Intersection Summary**

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 0 (0%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 11: Scottsdale Road &amp; Indian School Road

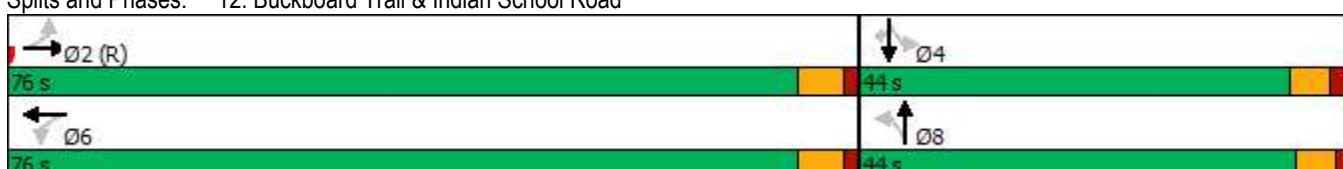


| Movement   | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|------|-------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑   |      | ↑    | ↑↑    |      |       | ↔    |      | ↓    | ↑    | ↑    |
| Traffic Volume (veh/h)   | 36    | 1037 | 9    | 65   | 1048  | 28   | 11    | 5    | 49   | 121  | 4    | 83   |
| Future Volume (veh/h)  | 36    | 1037 | 9    | 65   | 1048  | 28   | 11    | 5    | 49   | 121  | 4    | 83   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00 |       | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      |      | No   |       |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 39    | 1127 | 10   | 71   | 1139  | 30   | 12    | 5    | 53   | 132  | 4    | 90   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2    | 2     | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 272   | 2265 | 20   | 368  | 2220  | 58   | 35    | 31   | 98   | 178  | 5    | 515  |
| Arrive On Green  | 1.00  | 1.00 | 1.00 | 0.63 | 0.63  | 0.63 | 0.32  | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| Sat Flow, veh/h  | 480   | 3609 | 32   | 495  | 3537  | 93   | 0     | 97   | 302  | 367  | 14   | 1585 |
| Grp Volume(v), veh/h   | 39    | 555  | 582  | 71   | 572   | 597  | 70    | 0    | 0    | 136  | 0    | 90   |
| Grp Sat Flow(s), veh/h/ln  | 480   | 1777 | 1865 | 495  | 1777  | 1854 | 398   | 0    | 0    | 381  | 0    | 1585 |
| Q Serve(g_s), s  | 3.3   | 0.0  | 0.0  | 7.6  | 21.2  | 21.2 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  |
| Cycle Q Clear(g_c), s  | 25.7  | 0.0  | 0.0  | 8.2  | 21.2  | 21.2 | 39.0  | 0.0  | 0.0  | 39.0 | 0.0  | 4.9  |
| Prop In Lane   | 1.00  |      | 0.02 | 1.00 |       | 0.05 | 0.17  |      | 0.76 | 0.97 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 272   | 1115 | 1170 | 368  | 1115  | 1163 | 165   | 0    | 0    | 183  | 0    | 515  |
| V/C Ratio(X)   | 0.14  | 0.50 | 0.50 | 0.19 | 0.51  | 0.51 | 0.43  | 0.00 | 0.00 | 0.74 | 0.00 | 0.17 |
| Avail Cap(c_a), veh/h  | 272   | 1115 | 1170 | 368  | 1115  | 1163 | 165   | 0    | 0    | 183  | 0    | 515  |
| HCM Platoon Ratio  | 2.00  | 2.00 | 2.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.69  | 0.69 | 0.69 | 0.73 | 0.73  | 0.73 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh   | 3.8   | 0.0  | 0.0  | 10.0 | 12.3  | 12.3 | 32.2  | 0.0  | 0.0  | 42.2 | 0.0  | 29.0 |
| Incr Delay (d2), s/veh   | 0.8   | 1.1  | 1.0  | 0.9  | 1.2   | 1.2  | 0.6   | 0.0  | 0.0  | 13.5 | 0.0  | 0.1  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.3   | 0.3  | 0.3  | 0.9  | 8.2   | 8.6  | 1.5   | 0.0  | 0.0  | 4.9  | 0.0  | 1.9  |
| Unsig. Movement Delay, s/veh   |       |      |      |      |       |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 4.6   | 1.1  | 1.0  | 10.8 | 13.5  | 13.5 | 32.8  | 0.0  | 0.0  | 55.7 | 0.0  | 29.0 |
| LnGrp LOS  | A     | A    | A    | B    | B     | B    | C     | A    | A    | E    | A    | C    |
| Approach Vol, veh/h  | 1176  |      |      | 1240 |       |      | 70    |      |      | 226  |      |      |
| Approach Delay, s/veh  | 1.2   |      |      | 13.3 |       |      | 32.8  |      |      | 45.1 |      |      |
| Approach LOS   | A     |      |      | B    |       |      | C     |      |      | D    |      |      |
| Timer - Assigned Phs   | 2     |      | 4    |      | 6     |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 81.3  |      | 44.6 |      | 81.3  |      | 44.6  |      |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.4 |      | 5.6  |      | * 5.4 |      | * 5.6 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | * 71  |      | 38.4 |      | * 71  |      | * 39  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 27.7  |      | 41.0 |      | 23.2  |      | 41.0  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 5.9   |      | 0.0  |      | 6.6   |      | 0.0   |      |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |      |       |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      | 11.2 |      |       |      |       |      |      |      |      |      |
| HCM 6th LOS  |       |      | B    |      |       |      |       |      |      |      |      |      |
| <b>Notes</b>   |       |      |      |      |       |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |      |       |      |       |      |      |      |      |      |



| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | EBTL                 | SBTL  | WBTL  | NBTL  |
| Lead/Lag  |                      |       |       |       |
| Lead-Lag Optimize   |                      |       |       |       |
| Recall Mode   | C-Max                | None  | Max   | None  |
| Maximum Split (s)   | 76                   | 44    | 76    | 44    |
| Maximum Split (%)   | 63.3%                | 36.7% | 63.3% | 36.7% |
| Minimum Split (s)   | 27.4                 | 36.6  | 27.4  | 36    |
| Yellow Time (s)   | 4                    | 3.6   | 4     | 3.6   |
| All-Red Time (s)  | 1.4                  | 2     | 1.4   | 1.4   |
| Minimum Initial (s)   | 10                   | 7     | 10    | 7     |
| Vehicle Extension (s)                                       | 2                    | 2     | 2     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)                                      | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 7     | 7     |
| Flash Dont Walk (s)   | 15                   | 24    | 15    | 24    |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 11                   | 87    | 11    | 87    |
| End Time (s)  | 87                   | 11    | 87    | 11    |
| Yield/Force Off (s)   | 81.6                 | 5.4   | 81.6  | 6     |
| Yield/Force Off 170(s)                                      | 66.6                 | 101.4 | 66.6  | 102   |
| Local Start Time (s)  | 0                    | 76    | 0     | 76    |
| Local Yield (s)   | 70.6                 | 114.4 | 70.6  | 115   |
| Local Yield 170(s)  | 55.6                 | 90.4  | 55.6  | 91    |
| Intersection Summary  |                      |       |       |       |
| Cycle Length  | 120                  |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 65                   |       |       |       |
| Offset: 11 (9%), Referenced to phase 2:EBTL, Start of Green |                      |       |       |       |

Splits and Phases: 12: Buckboard Trail &amp; Indian School Road



| Movement                              | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL  | SBT  | SBR  |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| Lane Configurations                   | ↑     | ↑↑    |       | ↑     | ↑↑    | ↑     | ↑     | ↑↑    | ↑     | ↑↑   | ↑↑   |      |
| Traffic Volume (veh/h)                | 88    | 1134  | 62    | 300   | 898   | 226   | 89    | 497   | 441   | 334  | 278  | 60   |
| Future Volume (veh/h)                 | 88    | 1134  | 62    | 300   | 898   | 226   | 89    | 497   | 441   | 334  | 278  | 60   |
| Initial Q (Q <sub>b</sub> ), veh      | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                   | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00 |      | 1.00 |
| Parking Bus, Adj                      | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                 | No    |       |       | No    |       |       | No    |       |       | No   |      |      |
| Adj Sat Flow, veh/h/ln                | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h                  | 96    | 1233  | 67    | 326   | 976   | 246   | 97    | 540   | 479   | 363  | 302  | 65   |
| Peak Hour Factor                      | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %                  | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    |
| Cap, veh/h                            | 263   | 1211  | 66    | 329   | 1510  | 674   | 183   | 743   | 332   | 389  | 639  | 136  |
| Arrive On Green                       | 0.03  | 0.12  | 0.12  | 0.15  | 0.43  | 0.43  | 0.10  | 0.21  | 0.21  | 0.11 | 0.22 | 0.22 |
| Sat Flow, veh/h                       | 1781  | 3428  | 186   | 1781  | 3554  | 1585  | 1781  | 3554  | 1585  | 3456 | 2917 | 619  |
| Grp Volume(v), veh/h                  | 96    | 639   | 661   | 326   | 976   | 246   | 97    | 540   | 479   | 363  | 182  | 185  |
| Grp Sat Flow(s), veh/h/ln             | 1781  | 1777  | 1837  | 1781  | 1777  | 1585  | 1781  | 1777  | 1585  | 1728 | 1777 | 1759 |
| Q Serve(g_s), s                       | 0.0   | 42.4  | 42.4  | 17.9  | 26.1  | 12.7  | 6.2   | 17.0  | 25.1  | 12.5 | 10.7 | 11.0 |
| Cycle Q Clear(g_c), s                 | 0.0   | 42.4  | 42.4  | 17.9  | 26.1  | 12.7  | 6.2   | 17.0  | 25.1  | 12.5 | 10.7 | 11.0 |
| Prop In Lane                          | 1.00  |       | 0.10  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00 |      | 0.35 |
| Lane Grp Cap(c), veh/h                | 263   | 628   | 649   | 329   | 1510  | 674   | 183   | 743   | 332   | 389  | 389  | 386  |
| V/C Ratio(X)                          | 0.37  | 1.02  | 1.02  | 0.99  | 0.65  | 0.37  | 0.53  | 0.73  | 1.44  | 0.93 | 0.47 | 0.48 |
| Avail Cap(c_a), veh/h                 | 263   | 628   | 649   | 329   | 1510  | 674   | 183   | 743   | 332   | 389  | 389  | 386  |
| HCM Platoon Ratio                     | 0.33  | 0.33  | 0.33  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                    | 0.91  | 0.91  | 0.91  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh              | 48.6  | 53.0  | 53.0  | 49.2  | 27.3  | 23.5  | 51.1  | 44.2  | 47.4  | 52.8 | 40.8 | 40.9 |
| Incr Delay (d2), s/veh                | 0.3   | 38.6  | 38.6  | 47.3  | 2.1   | 1.5   | 1.5   | 6.1   | 216.5 | 29.0 | 4.0  | 4.2  |
| Initial Q Delay(d3), s/veh            | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln             | 2.8   | 26.9  | 27.8  | 13.5  | 11.2  | 5.0   | 2.8   | 8.0   | 29.7  | 6.9  | 5.1  | 5.2  |
| Unsig. Movement Delay, s/veh          |       |       |       |       |       |       |       |       |       |      |      |      |
| LnGrp Delay(d), s/veh                 | 48.8  | 91.6  | 91.6  | 96.5  | 29.5  | 25.0  | 52.6  | 50.4  | 263.9 | 81.8 | 44.8 | 45.1 |
| LnGrp LOS                             | D     | F     | F     | F     | C     | C     | D     | D     | F     | F    | D    | D    |
| Approach Vol, veh/h                   | 1396  |       |       |       | 1548  |       |       |       | 1116  |      |      | 730  |
| Approach Delay, s/veh                 | 88.7  |       |       |       | 42.9  |       |       |       | 142.2 |      |      | 63.3 |
| Approach LOS                          | F     |       |       |       | D     |       |       |       | F     |      |      | E    |
| Timer - Assigned Phs                  | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |       |      |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s | 17.6  | 31.4  | 14.8  | 56.2  | 18.8  | 30.2  | 23.4  | 47.6  |       |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s  | * 5.3 | * 5.1 | * 5.3 | * 5.2 | * 5.3 | * 5.1 | * 5.3 | * 5.2 |       |      |      |      |
| Max Green Setting (Gmax), s           | * 12  | * 26  | * 9.5 | * 51  | * 14  | * 25  | * 18  | * 42  |       |      |      |      |
| Max Q Clear Time (g_c+l1), s          | 8.2   | 13.0  | 2.0   | 28.1  | 14.5  | 27.1  | 19.9  | 44.4  |       |      |      |      |
| Green Ext Time (p_c), s               | 0.0   | 0.3   | 0.1   | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   |       |      |      |      |

**Intersection Summary**

HCM 6th Ctrl Delay                            82.5  
HCM 6th LOS                                    F

**Notes**

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBTL  | SBL   | NBT   | WBL   | EBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 17.6  | 31.4  | 14.8  | 56.2  | 18.8  | 30.2  | 23.4  | 47.6  |
| Maximum Split (%)      | 14.7% | 26.2% | 12.3% | 46.8% | 15.7% | 25.2% | 19.5% | 39.7% |
| Minimum Split (s)      | 10.3  | 29.1  | 10.3  | 28.2  | 10.3  | 29.1  | 10.3  | 30.2  |
| Yellow Time (s)        | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.1   | 2     | 1.2   | 2     | 1.1   | 2     | 1.2   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 20    |       | 19    |       | 20    |       | 21    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 49.4  | 18    | 3.2   | 67    | 48.2  | 18    | 114.6 | 67    |
| End Time (s)           | 67    | 49.4  | 18    | 3.2   | 67    | 48.2  | 18    | 114.6 |
| Yield/Force Off (s)    | 61.7  | 44.3  | 12.7  | 118   | 61.7  | 43.1  | 12.7  | 109.4 |
| Yield/Force Off 170(s) | 61.7  | 24.3  | 12.7  | 99    | 61.7  | 23.1  | 12.7  | 88.4  |
| Local Start Time (s)   | 31.4  | 0     | 105.2 | 49    | 30.2  | 0     | 96.6  | 49    |
| Local Yield (s)        | 43.7  | 26.3  | 114.7 | 100   | 43.7  | 25.1  | 114.7 | 91.4  |
| Local Yield 170(s)     | 43.7  | 6.3   | 114.7 | 81    | 43.7  | 5.1   | 114.7 | 70.4  |

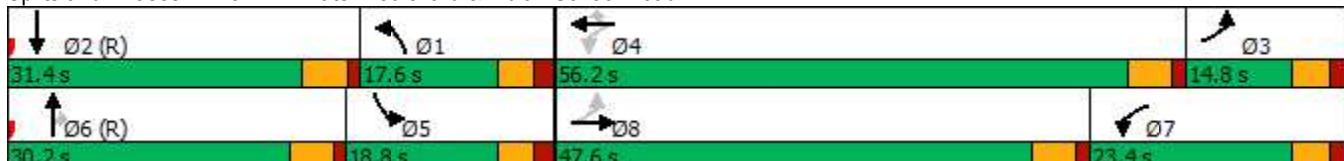
**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 120

Offset: 18 (15%), Referenced to phase 2:SBT and 6:NBT, Start of Green

**Splits and Phases:** 13: Drinkwater Boulevard & Indian School Road



## Appendix J – Year 2024 Build Capacity Analysis

J

**Intersection**

Int Delay, s/veh 0.7

| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | W    |      | ↑↑   |      | ↑    | ↑↑↑  |
| Traffic Vol, veh/h       | 21   | 31   | 561  | 46   | 41   | 586  |
| Future Vol, veh/h        | 21   | 31   | 561  | 46   | 41   | 586  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | 100  | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | 0    | -    | 0    | -    | -    | 0    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 23   | 34   | 610  | 50   | 45   | 637  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |       |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 980    | 330    | 0      | 0 | 660   |
| Stage 1              | 635    | -      | -      | - | -     |
| Stage 2              | 345    | -      | -      | - | -     |
| Critical Hdwy        | 6.29   | 6.94   | -      | - | 4.14  |
| Critical Hdwy Stg 1  | 5.84   | -      | -      | - | -     |
| Critical Hdwy Stg 2  | 6.04   | -      | -      | - | -     |
| Follow-up Hdwy       | 3.67   | 3.32   | -      | - | 2.22  |
| Pot Cap-1 Maneuver   | *675   | *871   | -      | - | *1304 |
| Stage 1              | *789   | -      | -      | - | -     |
| Stage 2              | *652   | -      | -      | - | -     |
| Platoon blocked, %   | 1      | 1      | -      | - | 1     |
| Mov Cap-1 Maneuver   | *651   | *871   | -      | - | *1304 |
| Mov Cap-2 Maneuver   | *570   | -      | -      | - | -     |
| Stage 1              | *789   | -      | -      | - | -     |
| Stage 2              | *629   | -      | -      | - | -     |

| Approach             | WB   | NB | SB  |
|----------------------|------|----|-----|
| HCM Control Delay, s | 10.4 | 0  | 0.5 |
| HCM LOS              | B    |    |     |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL    | SBT |
|-----------------------|-----|-----|-------|--------|-----|
| Capacity (veh/h)      | -   | -   | 718   | * 1304 | -   |
| HCM Lane V/C Ratio    | -   | -   | 0.079 | 0.034  | -   |
| HCM Control Delay (s) | -   | -   | 10.4  | 7.9    | -   |
| HCM Lane LOS          | -   | -   | B     | A      | -   |
| HCM 95th %tile Q(veh) | -   | -   | 0.3   | 0.1    | -   |

**Notes**

~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

## Intersection

Int Delay, s/veh 2.8

| Movement                   | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Lane Configurations</b> |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Vol, veh/h         | 0    | 82   | 13   | 14   | 50   | 0    | 15   | 0    | 39   | 0    | 0    | 0    |
| Future Vol, veh/h          | 0    | 82   | 13   | 14   | 50   | 0    | 15   | 0    | 39   | 0    | 0    | 0    |
| Conflicting Peds, #/hr     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control               | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized             | -    | -    | None |
| Storage Length             | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, #   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor           | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %          | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                  | 0    | 89   | 14   | 15   | 54   | 0    | 16   | 0    | 42   | 0    | 0    | 0    |

| Major/Minor          | Major1 | Major2 |   | Minor1 |   | Minor2 |       |       |       |       |       |       |
|----------------------|--------|--------|---|--------|---|--------|-------|-------|-------|-------|-------|-------|
| Conflicting Flow All | 54     | 0      | 0 | 103    | 0 | 0      | 180   | 180   | 96    | 201   | 187   | 54    |
| Stage 1              | -      | -      | - | -      | - | -      | 96    | 96    | -     | 84    | 84    | -     |
| Stage 2              | -      | -      | - | -      | - | -      | 84    | 84    | -     | 117   | 103   | -     |
| Critical Hdwy        | 4.12   | -      | - | 4.12   | - | -      | 7.12  | 6.52  | 6.22  | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1  | -      | -      | - | -      | - | -      | 6.12  | 5.52  | -     | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2  | -      | -      | - | -      | - | -      | 6.12  | 5.52  | -     | 6.12  | 5.52  | -     |
| Follow-up Hdwy       | 2.218  | -      | - | 2.218  | - | -      | 3.518 | 4.018 | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver   | 1558   | -      | - | 1489   | - | -      | 795   | 722   | 960   | 770   | 716   | 1028  |
| Stage 1              | -      | -      | - | -      | - | -      | 911   | 815   | -     | 935   | 831   | -     |
| Stage 2              | -      | -      | - | -      | - | -      | 935   | 831   | -     | 888   | 810   | -     |
| Platoon blocked, %   | 1      | -      | - | -      | - | -      | 1     | 1     | -     | 1     | 1     | 1     |
| Mov Cap-1 Maneuver   | 1558   | -      | - | 1489   | - | -      | 788   | 715   | 960   | 731   | 709   | 1028  |
| Mov Cap-2 Maneuver   | -      | -      | - | -      | - | -      | 788   | 715   | -     | 731   | 709   | -     |
| Stage 1              | -      | -      | - | -      | - | -      | 911   | 815   | -     | 935   | 823   | -     |
| Stage 2              | -      | -      | - | -      | - | -      | 926   | 823   | -     | 849   | 810   | -     |

| Approach              | EB    | WB   |     | NB  |      | SB  |     |       |
|-----------------------|-------|------|-----|-----|------|-----|-----|-------|
| HCM Control Delay, s  | 0     | 1.6  |     | 9.3 |      | 0   |     |       |
| HCM LOS               |       |      |     | A   |      | A   |     |       |
| <hr/>                 |       |      |     |     |      |     |     |       |
| Minor Lane/Major Mvmt | NBLn1 | EBL  | EBT | EBR | WBL  | WBT | WBR | SBLn1 |
| Capacity (veh/h)      | 905   | 1558 | -   | -   | 1489 | -   | -   | -     |
| HCM Lane V/C Ratio    | 0.065 | -    | -   | -   | 0.01 | -   | -   | -     |
| HCM Control Delay (s) | 9.3   | 0    | -   | -   | 7.4  | 0   | -   | 0     |
| HCM Lane LOS          | A     | A    | -   | -   | A    | A   | -   | A     |
| HCM 95th %tile Q(veh) | 0.2   | 0    | -   | -   | 0    | -   | -   | -     |

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 1.3    |        |        |      |       |       |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL   | SBR   |
| Lane Configurations      |        |        |        |      |       |       |
| Traffic Vol, veh/h       | 11     | 110    | 61     | 11   | 16    | 3     |
| Future Vol, veh/h        | 11     | 110    | 61     | 11   | 16    | 3     |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | -      | -      | -    | 0     | -     |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0     | -     |
| Grade, %                 | -      | 0      | 0      | -    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 12     | 120    | 66     | 12   | 17    | 3     |
| Major/Minor              | Major1 | Major2 | Minor2 |      |       |       |
| Conflicting Flow All     | 78     | 0      | -      | 0    | 216   | 72    |
| Stage 1                  | -      | -      | -      | -    | 72    | -     |
| Stage 2                  | -      | -      | -      | -    | 144   | -     |
| Critical Hdwy            | 4.12   | -      | -      | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | 2.218  | -      | -      | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | 1525   | -      | -      | -    | 782   | 1004  |
| Stage 1                  | -      | -      | -      | -    | 959   | -     |
| Stage 2                  | -      | -      | -      | -    | 883   | -     |
| Platoon blocked, %       | 1      | -      | -      | -    | 1     | 1     |
| Mov Cap-1 Maneuver       | 1525   | -      | -      | -    | 775   | 1004  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 775   | -     |
| Stage 1                  | -      | -      | -      | -    | 951   | -     |
| Stage 2                  | -      | -      | -      | -    | 883   | -     |
| Approach                 | EB     | WB     | SB     |      |       |       |
| HCM Control Delay, s     | 0.7    | 0      | 9.6    |      |       |       |
| HCM LOS                  |        |        | A      |      |       |       |
| Minor Lane/Major Mvmt    | EBL    | EBT    | WBT    | WBR  | SBLn1 |       |
| Capacity (veh/h)         | 1525   | -      | -      | -    | 804   |       |
| HCM Lane V/C Ratio       | 0.008  | -      | -      | -    | 0.026 |       |
| HCM Control Delay (s)    | 7.4    | 0      | -      | -    | 9.6   |       |
| HCM Lane LOS             | A      | A      | -      | -    | A     |       |
| HCM 95th %tile Q(veh)    | 0      | -      | -      | -    | 0.1   |       |

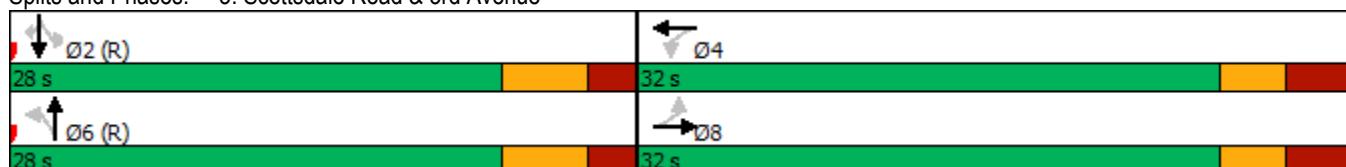
| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 2      |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      |        | ↔      | ↔     |       |       |
| Traffic Vol, veh/h       | 106    | 20     | 31     | 99    | 16    | 20    |
| Future Vol, veh/h        | 106    | 20     | 31     | 99    | 16    | 20    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None  | -     | None  |
| Storage Length           | -      | -      | -      | -     | 0     | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92    | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 115    | 22     | 34     | 108   | 17    | 22    |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 137    | 0     | 302   | 126   |
| Stage 1                  | -      | -      | -      | -     | 126   | -     |
| Stage 2                  | -      | -      | -      | -     | 176   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -     | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -     | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 1447   | -     | 720   | 924   |
| Stage 1                  | -      | -      | -      | -     | 900   | -     |
| Stage 2                  | -      | -      | -      | -     | 879   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | 1     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1447   | -     | 702   | 924   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 702   | -     |
| Stage 1                  | -      | -      | -      | -     | 900   | -     |
| Stage 2                  | -      | -      | -      | -     | 857   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Control Delay, s     | 0      | 1.8    | 9.7    |       |       |       |
| HCM LOS                  |        |        | A      |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 810    | -      | -      | 1447  | -     |       |
| HCM Lane V/C Ratio       | 0.048  | -      | -      | 0.023 | -     |       |
| HCM Control Delay (s)    | 9.7    | -      | -      | 7.5   | 0     |       |
| HCM Lane LOS             | A      | -      | -      | A     | A     |       |
| HCM 95th %tile Q(veh)    | 0.2    | -      | -      | 0.1   | -     |       |

| Movement                              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations                   | ↑    | ↑    |      | ↑    | ↑    |      | ↑    | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)                | 17   | 19   | 54   | 22   | 7    | 52   | 96   | 468  | 28   | 63   | 400  | 27   |
| Future Volume (veh/h)                 | 17   | 19   | 54   | 22   | 7    | 52   | 96   | 468  | 28   | 63   | 400  | 27   |
| Initial Q (Q <sub>b</sub> ), veh      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj                      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                 | No   |      |      | No   |      |      | No   |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln                | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h                  | 18   | 21   | 59   | 24   | 8    | 57   | 104  | 509  | 30   | 68   | 435  | 29   |
| Peak Hour Factor                      | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %                  | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h                            | 286  | 69   | 194  | 274  | 32   | 226  | 668  | 2185 | 129  | 675  | 2277 | 1016 |
| Arrive On Green                       | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 1.00 | 1.00 | 1.00 | 0.64 | 0.64 | 0.64 |
| Sat Flow, veh/h                       | 1337 | 433  | 1218 | 1319 | 199  | 1417 | 928  | 3410 | 201  | 866  | 3554 | 1585 |
| Grp Volume(v), veh/h                  | 18   | 0    | 80   | 24   | 0    | 65   | 104  | 265  | 274  | 68   | 435  | 29   |
| Grp Sat Flow(s), veh/h/ln             | 1337 | 0    | 1651 | 1319 | 0    | 1615 | 928  | 1777 | 1834 | 866  | 1777 | 1585 |
| Q Serve(g_s), s                       | 0.7  | 0.0  | 2.6  | 1.0  | 0.0  | 2.1  | 0.6  | 0.0  | 0.0  | 1.8  | 3.0  | 0.4  |
| Cycle Q Clear(g_c), s                 | 2.8  | 0.0  | 2.6  | 3.6  | 0.0  | 2.1  | 3.6  | 0.0  | 0.0  | 1.8  | 3.0  | 0.4  |
| Prop In Lane                          | 1.00 |      | 0.74 | 1.00 |      | 0.88 | 1.00 |      | 0.11 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h                | 286  | 0    | 263  | 274  | 0    | 257  | 668  | 1138 | 1175 | 675  | 2277 | 1016 |
| V/C Ratio(X)                          | 0.06 | 0.00 | 0.30 | 0.09 | 0.00 | 0.25 | 0.16 | 0.23 | 0.23 | 0.10 | 0.19 | 0.03 |
| Avail Cap(c_a), veh/h                 | 652  | 0    | 716  | 635  | 0    | 700  | 668  | 1138 | 1175 | 675  | 2277 | 1016 |
| HCM Platoon Ratio                     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                    | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.86 | 0.86 | 0.86 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh              | 23.3 | 0.0  | 22.3 | 23.9 | 0.0  | 22.1 | 0.1  | 0.0  | 0.0  | 4.2  | 4.4  | 3.9  |
| Incr Delay (d2), s/veh                | 0.0  | 0.0  | 0.2  | 0.1  | 0.0  | 0.2  | 0.4  | 0.4  | 0.4  | 0.3  | 0.2  | 0.1  |
| Initial Q Delay(d3), s/veh            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln             | 0.2  | 0.0  | 1.0  | 0.3  | 0.0  | 0.8  | 0.1  | 0.1  | 0.1  | 0.3  | 0.8  | 0.1  |
| Unsig. Movement Delay, s/veh          |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                 | 23.4 | 0.0  | 22.5 | 23.9 | 0.0  | 22.3 | 0.6  | 0.4  | 0.4  | 4.5  | 4.6  | 4.0  |
| LnGrp LOS                             | C    | A    | C    | C    | A    | C    | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                   | 98   |      |      |      | 89   |      |      | 643  |      |      | 532  |      |
| Approach Delay, s/veh                 | 22.7 |      |      |      | 22.7 |      |      | 0.4  |      |      | 4.6  |      |
| Approach LOS                          | C    |      |      |      | C    |      |      | A    |      |      | A    |      |
| Timer - Assigned Phs                  | 2    |      | 4    |      | 6    |      | 8    |      |      |      |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s | 44.4 |      | 15.6 |      | 44.4 |      | 15.6 |      |      |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s  | 6.0  |      | 6.0  |      | 6.0  |      | 6.0  |      |      |      |      |      |
| Max Green Setting (Gmax), s           | 22.0 |      | 26.0 |      | 22.0 |      | 26.0 |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s          | 5.0  |      | 5.6  |      | 5.6  |      | 4.8  |      |      |      |      |      |
| Green Ext Time (p_c), s               | 1.2  |      | 0.2  |      | 1.3  |      | 0.3  |      |      |      |      |      |
| <b>Intersection Summary</b>           |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                    |      |      | 5.1  |      |      |      |      |      |      |      |      |      |
| HCM 6th LOS                           |      |      | A    |      |      |      |      |      |      |      |      |      |

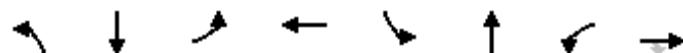


| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | SBTL                 | WBTL  | NBTL  | EBTL  |
| Lead/Lag  |                      |       |       |       |
| Lead-Lag Optimize   |                      |       |       |       |
| Recall Mode   | C-Max                | None  | C-Max | None  |
| Maximum Split (s)   | 28                   | 32    | 28    | 32    |
| Maximum Split (%)   | 46.7%                | 53.3% | 46.7% | 53.3% |
| Minimum Split (s)   | 23                   | 32    | 23    | 32    |
| Yellow Time (s)   | 3.8                  | 3     | 3.8   | 3     |
| All-Red Time (s)  | 2.2                  | 3     | 2.2   | 3     |
| Minimum Initial (s)   | 10                   | 10    | 10    | 10    |
| Vehicle Extension (s)   | 1                    | 2     | 1     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)  | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 7     | 7     |
| Flash Dont Walk (s)   | 10                   | 19    | 10    | 19    |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 35                   | 3     | 35    | 3     |
| End Time (s)  | 3                    | 35    | 3     | 35    |
| Yield/Force Off (s)   | 57                   | 29    | 57    | 29    |
| Yield/Force Off 170(s)  | 47                   | 10    | 47    | 10    |
| Local Start Time (s)  | 0                    | 28    | 0     | 28    |
| Local Yield (s)   | 22                   | 54    | 22    | 54    |
| Local Yield 170(s)  | 12                   | 35    | 12    | 35    |
| Intersection Summary  |                      |       |       |       |
| Cycle Length  | 60                   |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 55                   |       |       |       |
| Offset: 35 (58%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green |                      |       |       |       |

Splits and Phases: 5: Scottsdale Road & 3rd Avenue



| Movement   | EBL   | EBT  | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|-------|-------|------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑↑    | ↑↑   | ↑    | ↑↑    | ↑↑    | 37   | 73    | 387   | 15   | 38   | 465  | 94   |
| Traffic Volume (veh/h)   | 203   | 676  | 77   | 69    | 610   | 37   | 73    | 387   | 15   | 38   | 465  | 94   |
| Future Volume (veh/h)  | 203   | 676  | 77   | 69    | 610   | 37   | 73    | 387   | 15   | 38   | 465  | 94   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00  |       | 1.00 | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      | No   |       | No    |      | No    |       | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870  | 1870  | 1870 | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 221   | 735  | 84   | 75    | 663   | 40   | 79    | 421   | 16   | 41   | 505  | 102  |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2     | 2     | 2    | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 328   | 1291 | 576  | 132   | 1036  | 62   | 247   | 1120  | 42   | 172  | 1187 | 234  |
| Arrive On Green  | 0.09  | 0.36 | 0.36 | 0.03  | 0.20  | 0.20 | 0.14  | 0.32  | 0.32 | 0.10 | 0.28 | 0.28 |
| Sat Flow, veh/h  | 3456  | 3554 | 1585 | 3456  | 3405  | 205  | 1781  | 3491  | 132  | 1781 | 4277 | 845  |
| Grp Volume(v), veh/h   | 221   | 735  | 84   | 75    | 346   | 357  | 79    | 214   | 223  | 41   | 400  | 207  |
| Grp Sat Flow(s), veh/h/ln  | 1728  | 1777 | 1585 | 1728  | 1777  | 1833 | 1781  | 1777  | 1847 | 1781 | 1702 | 1718 |
| Q Serve(g_s), s  | 7.4   | 19.9 | 2.7  | 2.6   | 21.4  | 21.4 | 4.8   | 11.2  | 11.2 | 2.6  | 11.5 | 11.9 |
| Cycle Q Clear(g_c), s  | 7.4   | 19.9 | 2.7  | 2.6   | 21.4  | 21.4 | 4.8   | 11.2  | 11.2 | 2.6  | 11.5 | 11.9 |
| Prop In Lane   | 1.00  |      | 1.00 | 1.00  |       | 0.11 | 1.00  |       | 0.07 | 1.00 |      | 0.49 |
| Lane Grp Cap(c), veh/h   | 328   | 1291 | 576  | 132   | 540   | 558  | 247   | 570   | 592  | 172  | 945  | 477  |
| V/C Ratio(X)   | 0.67  | 0.57 | 0.15 | 0.57  | 0.64  | 0.64 | 0.32  | 0.38  | 0.38 | 0.24 | 0.42 | 0.44 |
| Avail Cap(c_a), veh/h  | 423   | 1291 | 576  | 225   | 540   | 558  | 247   | 570   | 592  | 172  | 945  | 477  |
| HCM Platoon Ratio  | 1.00  | 1.00 | 1.00 | 0.67  | 0.67  | 0.67 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 1.00  | 1.00 | 1.00 | 0.95  | 0.95  | 0.95 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 52.5  | 30.7 | 10.5 | 57.5  | 41.8  | 41.8 | 46.6  | 31.5  | 31.5 | 50.1 | 35.5 | 35.6 |
| Incr Delay (d2), s/veh   | 1.4   | 1.8  | 0.5  | 1.4   | 5.4   | 5.3  | 0.3   | 1.9   | 1.8  | 0.3  | 1.4  | 2.9  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 3.3   | 8.7  | 1.7  | 1.1   | 10.5  | 10.9 | 2.1   | 5.0   | 5.3  | 1.1  | 4.9  | 5.3  |
| Unsig. Movement Delay, s/veh   |       |      |      |       |       |      |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 53.9  | 32.5 | 11.0 | 58.8  | 47.2  | 47.1 | 46.9  | 33.3  | 33.3 | 50.4 | 36.9 | 38.5 |
| LnGrp LOS  | D     | C    | B    | E     | D     | D    | D     | C     | C    | D    | D    | D    |
| Approach Vol, veh/h  | 1040  |      |      |       | 778   |      |       | 516   |      | 648  |      |      |
| Approach Delay, s/veh  | 35.3  |      |      |       | 48.3  |      |       | 35.4  |      | 38.2 |      |      |
| Approach LOS   | D     |      |      |       | D     |      |       | D     |      | D    |      |      |
| Timer - Assigned Phs   | 1     | 2    | 3    | 4     | 5     | 6    | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 22.2  | 39.0 | 16.8 | 42.0  | 17.2  | 44.0 | 9.8   | 49.0  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.6 | 5.7  | 5.4  | * 5.5 | * 5.6 | 5.5  | * 5.2 | * 5.4 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 13  | 33.3 | 14.7 | * 37  | * 8.4 | 38.5 | * 7.8 | * 44  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 6.8   | 13.9 | 9.4  | 23.4  | 4.6   | 13.2 | 4.6   | 21.9  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 1.4  | 0.2  | 1.3   | 0.0   | 0.8  | 0.0   | 1.9   |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |       |       |      |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      |      | 39.3  |       |      |       |       |      |      |      |      |
| HCM 6th LOS  |       |      |      | D     |       |      |       |       |      |      |      |      |
| <b>Notes</b>   |       |      |      |       |       |      |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |       |       |      |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBT   | SBL   | NBT   | WBL   | EBT   |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lead  | Lag   |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 19    | 39    | 20    | 42    | 14    | 44    | 13    | 49    |
| Maximum Split (%)      | 15.8% | 32.5% | 16.7% | 35.0% | 11.7% | 36.7% | 10.8% | 40.8% |
| Minimum Split (s)      | 10.6  | 33.7  | 10.3  | 31.5  | 10.6  | 37.5  | 10.2  | 31.4  |
| Yellow Time (s)        | 3.6   | 4.4   | 3.3   | 4     | 3.6   | 4.4   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.3   | 2     | 1.5   | 2     | 1.1   | 1.9   | 1.4   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 24    |       | 22    |       | 28    |       | 22    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 51    | 12    | 112   | 70    | 56    | 12    | 70    | 83    |
| End Time (s)           | 70    | 51    | 12    | 112   | 70    | 56    | 83    | 12    |
| Yield/Force Off (s)    | 64.4  | 45.3  | 6.7   | 106.5 | 64.4  | 50.5  | 77.8  | 6.6   |
| Yield/Force Off 170(s) | 64.4  | 21.3  | 6.7   | 84.5  | 64.4  | 22.5  | 77.8  | 104.6 |
| Local Start Time (s)   | 39    | 0     | 100   | 58    | 44    | 0     | 58    | 71    |
| Local Yield (s)        | 52.4  | 33.3  | 114.7 | 94.5  | 52.4  | 38.5  | 65.8  | 114.6 |
| Local Yield 170(s)     | 52.4  | 9.3   | 114.7 | 72.5  | 52.4  | 10.5  | 65.8  | 92.6  |

**Intersection Summary**

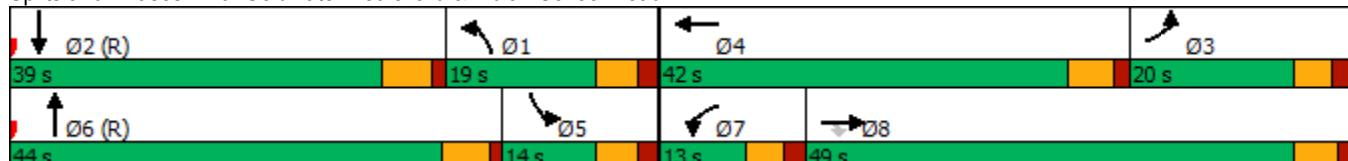
Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 12 (10%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Splits and Phases: 6: Goldwater Boulevard &amp; Indian School Road



| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      |       | ↔    |      |      | ↔    |      |
| Traffic Volume (veh/h)   | 29   | 655  | 13    | 70   | 718  | 34   | 5     | 5    | 10   | 3    | 5    | 15   |
| Future Volume (veh/h)  | 29   | 655  | 13    | 70   | 718  | 34   | 5     | 5    | 10   | 3    | 5    | 15   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 32   | 712  | 14    | 76   | 780  | 37   | 5     | 5    | 11   | 3    | 5    | 16   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 439  | 2370 | 47    | 483  | 2297 | 109  | 112   | 117  | 211  | 64   | 106  | 271  |
| Arrive On Green  | 0.67 | 0.67 | 0.67  | 0.67 | 0.67 | 0.67 | 0.25  | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Sat Flow, veh/h  | 669  | 3565 | 70    | 728  | 3454 | 164  | 299   | 470  | 846  | 120  | 425  | 1089 |
| Grp Volume(v), veh/h   | 32   | 355  | 371   | 76   | 401  | 416  | 21    | 0    | 0    | 24   | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln  | 669  | 1777 | 1858  | 728  | 1777 | 1841 | 1615  | 0    | 0    | 1634 | 0    | 0    |
| Q Serve(g_s), s  | 2.6  | 10.0 | 10.0  | 5.9  | 11.7 | 11.7 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s  | 14.3 | 10.0 | 10.0  | 15.9 | 11.7 | 11.7 | 1.1   | 0.0  | 0.0  | 1.3  | 0.0  | 0.0  |
| Prop In Lane   | 1.00 |      | 0.04  | 1.00 |      | 0.09 | 0.24  |      | 0.52 | 0.12 |      | 0.67 |
| Lane Grp Cap(c), veh/h   | 439  | 1182 | 1235  | 483  | 1182 | 1224 | 440   | 0    | 0    | 441  | 0    | 0    |
| V/C Ratio(X)   | 0.07 | 0.30 | 0.30  | 0.16 | 0.34 | 0.34 | 0.05  | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h  | 439  | 1182 | 1235  | 483  | 1182 | 1224 | 440   | 0    | 0    | 441  | 0    | 0    |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.86 | 0.86 | 0.86  | 1.00 | 1.00 | 1.00 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh   | 11.8 | 8.4  | 8.4   | 11.7 | 8.7  | 8.7  | 34.2  | 0.0  | 0.0  | 34.3 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh   | 0.3  | 0.6  | 0.5   | 0.7  | 0.8  | 0.8  | 0.2   | 0.0  | 0.0  | 0.2  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.4  | 3.8  | 3.9   | 1.0  | 4.4  | 4.6  | 0.5   | 0.0  | 0.0  | 0.6  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 12.1 | 9.0  | 9.0   | 12.4 | 9.5  | 9.5  | 34.5  | 0.0  | 0.0  | 34.6 | 0.0  | 0.0  |
| LnGrp LOS  | B    | A    | A     | B    | A    | A    | C     | A    | A    | C    | A    | A    |
| Approach Vol, veh/h  | 758  |      |       |      | 893  |      |       | 21   |      |      | 24   |      |
| Approach Delay, s/veh  | 9.1  |      |       |      | 9.7  |      |       | 34.5 |      |      | 34.6 |      |
| Approach LOS   | A    |      |       |      | A    |      |       | C    |      |      | C    |      |
| Timer - Assigned Phs   | 2    |      | 4     |      | 6    |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 35.0 |      | 85.0  |      | 35.0 |      | 85.0  |      |      |      |      |      |
| Change Period (Y+Rc), s  | 5.1  |      | * 5.2 |      | 5.1  |      | * 5.2 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | 29.9 |      | * 80  |      | 29.9 |      | * 80  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 3.3  |      | 17.9  |      | 3.1  |      | 16.3  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 0.1  |      | 3.9   |      | 0.0  |      | 3.2   |      |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      | 10.1  |      |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      | B     |      |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| User approved pedestrian interval to be less than phase max green.                                 |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |



| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | SBTL                 | WBTL  | NBTL  | EBTL  |
| <b>Lead/Lag</b>   |                      |       |       |       |
| <b>Lead-Lag Optimize</b>  |                      |       |       |       |
| Recall Mode   | C-Max                | Max   | C-Max | Max   |
| Maximum Split (s)   | 35                   | 85    | 35    | 85    |
| Maximum Split (%)   | 29.2%                | 70.8% | 29.2% | 70.8% |
| Minimum Split (s)   | 29.1                 | 22.5  | 30.1  | 22.5  |
| Yellow Time (s)   | 3.6                  | 4     | 3.6   | 4     |
| All-Red Time (s)  | 1.5                  | 1.2   | 1.5   | 1.2   |
| Minimum Initial (s)   | 7                    | 10    | 7     | 10    |
| Vehicle Extension (s)   | 2                    | 2     | 2     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)  | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 8     | 7     |
| Flash Dont Walk (s)   | 17                   | 7     | 17    | 8     |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 6                    | 41    | 6     | 41    |
| End Time (s)  | 41                   | 6     | 41    | 6     |
| Yield/Force Off (s)   | 35.9                 | 0.8   | 35.9  | 0.8   |
| Yield/Force Off 170(s)  | 18.9                 | 113.8 | 18.9  | 112.8 |
| Local Start Time (s)  | 0                    | 35    | 0     | 35    |
| Local Yield (s)   | 29.9                 | 114.8 | 29.9  | 114.8 |
| Local Yield 170(s)  | 12.9                 | 107.8 | 12.9  | 106.8 |
| <b>Intersection Summary</b>   |                      |       |       |       |
| Cycle Length  | 120                  |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 55                   |       |       |       |
| Offset: 6 (5%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green |                      |       |       |       |

Splits and Phases: 7: Marshall Way & Indian School Road



| Intersection             |        |        |        |       |      |      |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh         | 0.1    |        |        |       |      |      |
| Movement                 | EBL    | EBT    | WBT    | WBR   | SBL  | SBR  |
| Lane Configurations      |        | ↑↑     | ↑↑     |       | ↑    |      |
| Traffic Vol, veh/h       | 0      | 668    | 806    | 9     | 0    | 16   |
| Future Vol, veh/h        | 0      | 668    | 806    | 9     | 0    | 16   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0    | 0    |
| Sign Control             | Free   | Free   | Free   | Free  | Stop | Stop |
| RT Channelized           | -      | None   | -      | None  | -    | None |
| Storage Length           | -      | -      | -      | -     | -    | 0    |
| Veh in Median Storage, # | -      | 0      | 0      | -     | 0    | -    |
| Grade, %                 | -      | 0      | 0      | -     | 0    | -    |
| Peak Hour Factor         | 92     | 92     | 92     | 92    | 92   | 92   |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2    | 2    |
| Mvmt Flow                | 0      | 726    | 876    | 10    | 0    | 17   |
| Major/Minor              | Major1 | Major2 | Minor2 |       |      |      |
| Conflicting Flow All     | -      | 0      | -      | 0     | -    | 443  |
| Stage 1                  | -      | -      | -      | -     | -    | -    |
| Stage 2                  | -      | -      | -      | -     | -    | -    |
| Critical Hdwy            | -      | -      | -      | -     | -    | 6.94 |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | -    | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | -    | -    |
| Follow-up Hdwy           | -      | -      | -      | -     | -    | 3.32 |
| Pot Cap-1 Maneuver       | 0      | -      | -      | -     | 0    | 562  |
| Stage 1                  | 0      | -      | -      | -     | 0    | -    |
| Stage 2                  | 0      | -      | -      | -     | 0    | -    |
| Platoon blocked, %       | -      | -      | -      | -     | -    | -    |
| Mov Cap-1 Maneuver       | -      | -      | -      | -     | -    | 562  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | -    | -    |
| Stage 1                  | -      | -      | -      | -     | -    | -    |
| Stage 2                  | -      | -      | -      | -     | -    | -    |
| Approach                 | EB     | WB     | SB     |       |      |      |
| HCM Control Delay, s     | 0      | 0      | 11.6   |       |      |      |
| HCM LOS                  |        |        | B      |       |      |      |
| Minor Lane/Major Mvmt    | EBT    | WBT    | WBR    | SBLn1 |      |      |
| Capacity (veh/h)         | -      | -      | -      | 562   |      |      |
| HCM Lane V/C Ratio       | -      | -      | -      | 0.031 |      |      |
| HCM Control Delay (s)    | -      | -      | -      | 11.6  |      |      |
| HCM Lane LOS             | -      | -      | -      | B     |      |      |
| HCM 95th %tile Q(veh)    | -      | -      | -      | 0.1   |      |      |

| Intersection             |        |        |        |      |      |      |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh         | 0      |        |        |      |      |      |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL  | SBR  |
| Lane Configurations      |        | ↑↑     | ↑↑     |      | ↗    |      |
| Traffic Vol, veh/h       | 0      | 668    | 813    | 0    | 0    | 2    |
| Future Vol, veh/h        | 0      | 668    | 813    | 0    | 0    | 2    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0    | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop | Stop |
| RT Channelized           | -      | None   | -      | None | -    | None |
| Storage Length           | -      | -      | -      | -    | -    | 0    |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0    | -    |
| Grade, %                 | -      | 0      | 0      | -    | 0    | -    |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2    | 2    |
| Mvmt Flow                | 0      | 726    | 884    | 0    | 0    | 2    |
| Major/Minor              | Major1 | Major2 | Minor2 |      |      |      |
| Conflicting Flow All     | -      | 0      | -      | 0    | -    | 442  |
| Stage 1                  | -      | -      | -      | -    | -    | -    |
| Stage 2                  | -      | -      | -      | -    | -    | -    |
| Critical Hdwy            | -      | -      | -      | -    | -    | 6.94 |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | -    | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | -    | -    |
| Follow-up Hdwy           | -      | -      | -      | -    | -    | 3.32 |
| Pot Cap-1 Maneuver       | 0      | -      | -      | 0    | 0    | 563  |
| Stage 1                  | 0      | -      | -      | 0    | 0    | -    |
| Stage 2                  | 0      | -      | -      | 0    | 0    | -    |
| Platoon blocked, %       | -      | -      | -      | -    | -    | -    |
| Mov Cap-1 Maneuver       | -      | -      | -      | -    | -    | 563  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | -    | -    |
| Stage 1                  | -      | -      | -      | -    | -    | -    |
| Stage 2                  | -      | -      | -      | -    | -    | -    |
| Approach                 | EB     | WB     | SB     |      |      |      |
| HCM Control Delay, s     | 0      | 0      | 11.4   |      |      |      |
| HCM LOS                  |        |        | B      |      |      |      |
| Minor Lane/Major Mvmt    | EBT    | WBT    | SBLn1  |      |      |      |
| Capacity (veh/h)         | -      | -      | 563    |      |      |      |
| HCM Lane V/C Ratio       | -      | -      | 0.004  |      |      |      |
| HCM Control Delay (s)    | -      | -      | 11.4   |      |      |      |
| HCM Lane LOS             | -      | -      | B      |      |      |      |
| HCM 95th %tile Q(veh)    | -      | -      | 0      |      |      |      |

| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↓   |       | ↑    | ↑↓   |      | ↑     | ↑↓   |      | ↑    | ↑↓   | ↑    |
| Traffic Volume (veh/h)   | 94   | 555  | 56    | 5    | 791  | 137  | 61    | 366  | 74   | 115  | 294  | 60   |
| Future Volume (veh/h)  | 94   | 555  | 56    | 5    | 791  | 137  | 61    | 366  | 74   | 115  | 294  | 60   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 102  | 603  | 61    | 5    | 860  | 149  | 66    | 398  | 80   | 125  | 320  | 65   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 320  | 1488 | 150   | 387  | 1282 | 222  | 308   | 728  | 145  | 298  | 995  | 444  |
| Arrive On Green  | 0.09 | 0.46 | 0.46  | 0.05 | 0.42 | 0.42 | 0.04  | 0.25 | 0.25 | 0.09 | 0.37 | 0.37 |
| Sat Flow, veh/h  | 1781 | 3259 | 329   | 1781 | 3028 | 525  | 1781  | 2953 | 588  | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h   | 102  | 328  | 336   | 5    | 505  | 504  | 66    | 238  | 240  | 125  | 320  | 65   |
| Grp Sat Flow(s), veh/h/ln  | 1781 | 1777 | 1811  | 1781 | 1777 | 1776 | 1781  | 1777 | 1764 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s  | 0.0  | 14.8 | 14.8  | 0.0  | 27.4 | 27.4 | 0.0   | 14.0 | 14.2 | 0.0  | 7.7  | 3.3  |
| Cycle Q Clear(g_c), s  | 0.0  | 14.8 | 14.8  | 0.0  | 27.4 | 27.4 | 0.0   | 14.0 | 14.2 | 0.0  | 7.7  | 3.3  |
| Prop In Lane   | 1.00 |      | 0.18  | 1.00 |      | 0.30 | 1.00  |      | 0.33 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 320  | 811  | 827   | 387  | 752  | 752  | 308   | 438  | 435  | 298  | 995  | 444  |
| V/C Ratio(X)   | 0.32 | 0.40 | 0.41  | 0.01 | 0.67 | 0.67 | 0.21  | 0.54 | 0.55 | 0.42 | 0.32 | 0.15 |
| Avail Cap(c_a), veh/h  | 320  | 811  | 827   | 387  | 752  | 752  | 330   | 438  | 435  | 320  | 995  | 444  |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.33 | 1.33 | 1.33 |
| Upstream Filter(l)   | 1.00 | 1.00 | 1.00  | 0.91 | 0.91 | 0.91 | 1.00  | 1.00 | 1.00 | 0.99 | 0.99 | 0.99 |
| Uniform Delay (d), s/veh   | 38.6 | 21.7 | 21.7  | 25.2 | 27.9 | 27.9 | 39.1  | 39.3 | 39.4 | 43.9 | 29.5 | 28.1 |
| Incr Delay (d2), s/veh   | 0.2  | 1.5  | 1.5   | 0.0  | 4.3  | 4.3  | 0.1   | 4.8  | 5.0  | 0.3  | 0.8  | 0.7  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 2.6  | 6.4  | 6.5   | 0.1  | 12.3 | 12.2 | 1.7   | 6.8  | 6.8  | 3.4  | 3.3  | 1.3  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 38.8 | 23.2 | 23.2  | 25.2 | 32.2 | 32.2 | 39.3  | 44.1 | 44.4 | 44.2 | 30.4 | 28.8 |
| LnGrp LOS  | D    | C    | C     | C    | C    | C    | D     | D    | D    | D    | C    | C    |
| Approach Vol, veh/h  | 766  |      |       |      | 1014 |      |       | 544  |      |      | 510  |      |
| Approach Delay, s/veh  | 25.3 |      |       |      | 32.1 |      |       | 43.6 |      |      | 33.6 |      |
| Approach LOS   | C    |      |       |      | C    |      |       | D    |      |      | C    |      |
| Timer - Assigned Phs   | 1    | 2    | 3     | 4    | 5    | 6    | 7     | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 11.5 | 60.0 | 9.5   | 39.0 | 15.5 | 56.0 | 13.5  | 35.0 |      |      |      |      |
| Change Period (Y+Rc), s  | * 5  | 5.2  | * 5.1 | 5.4  | * 5  | 5.2  | * 5.1 | 5.4  |      |      |      |      |
| Max Green Setting (Gmax), s  | * 5  | 54.8 | * 5.9 | 33.6 | * 9  | 50.8 | * 9.9 | 29.6 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 2.0  | 16.8 | 2.0   | 9.7  | 2.0  | 29.4 | 2.0   | 16.2 |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0  | 1.3  | 0.0   | 1.5  | 0.1  | 2.2  | 0.1   | 1.7  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      |       | 32.8 |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      |       | C    |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |

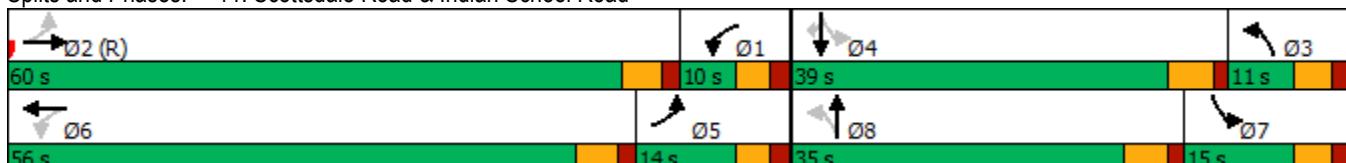


| Phase Number           | 1    | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | WBL  | EBTL  | NBL   | SBTL  | EBL   | WBTL  | SBL   | NBTL  |
| Lead/Lag               | Lag  | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Recall Mode            | None | C-Max | None  | Max   | None  | Max   | None  | Max   |
| Maximum Split (s)      | 10   | 60    | 11    | 39    | 14    | 56    | 15    | 35    |
| Maximum Split (%)      | 8.3% | 50.0% | 9.2%  | 32.5% | 11.7% | 46.7% | 12.5% | 29.2% |
| Minimum Split (s)      | 10   | 35.2  | 10.1  | 33.4  | 10    | 35.2  | 10.1  | 33.4  |
| Yellow Time (s)        | 3    | 3.6   | 3.3   | 4     | 3     | 3.6   | 3.3   | 4     |
| All-Red Time (s)       | 2    | 1.6   | 1.8   | 1.4   | 2     | 1.6   | 1.8   | 1.4   |
| Minimum Initial (s)    | 5    | 10    | 5     | 10    | 5     | 10    | 5     | 10    |
| Vehicle Extension (s)  | 2    | 1     | 2     | 2     | 2     | 1     | 2     | 2     |
| Minimum Gap (s)        | 3    | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |      | 8     |       | 8     |       | 8     |       | 8     |
| Flash Dont Walk (s)    |      | 22    |       | 20    |       | 22    |       | 20    |
| Dual Entry             | No   | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes  | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 60   | 0     | 109   | 70    | 56    | 0     | 105   | 70    |
| End Time (s)           | 70   | 60    | 0     | 109   | 70    | 56    | 0     | 105   |
| Yield/Force Off (s)    | 65   | 54.8  | 114.9 | 103.6 | 65    | 50.8  | 114.9 | 99.6  |
| Yield/Force Off 170(s) | 65   | 32.8  | 114.9 | 83.6  | 65    | 28.8  | 114.9 | 79.6  |
| Local Start Time (s)   | 60   | 0     | 109   | 70    | 56    | 0     | 105   | 70    |
| Local Yield (s)        | 65   | 54.8  | 114.9 | 103.6 | 65    | 50.8  | 114.9 | 99.6  |
| Local Yield 170(s)     | 65   | 32.8  | 114.9 | 83.6  | 65    | 28.8  | 114.9 | 79.6  |

**Intersection Summary**

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 0 (0%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 11: Scottsdale Road &amp; Indian School Road



| Movement   | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|------|-------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↓   |      | ↑    | ↑↓    |      |       | ↔    |      | ↑    | ↑    | ↑    |
| Traffic Volume (veh/h)   | 123   | 813  | 11   | 44   | 1038  | 142  | 3     | 2    | 17   | 41   | 0    | 52   |
| Future Volume (veh/h)  | 123   | 813  | 11   | 44   | 1038  | 142  | 3     | 2    | 17   | 41   | 0    | 52   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00 |       | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      |      | No   |       |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 134   | 884  | 12   | 48   | 1128  | 154  | 3     | 2    | 18   | 45   | 0    | 57   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2    | 2     | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 391   | 3054 | 41   | 589  | 2674  | 364  | 39    | 14   | 72   | 145  | 0    | 91   |
| Arrive On Green  | 1.00  | 1.00 | 1.00 | 0.85 | 0.85  | 0.85 | 0.06  | 0.06 | 0.06 | 0.06 | 0.00 | 0.06 |
| Sat Flow, veh/h  | 431   | 3590 | 49   | 621  | 3142  | 428  | 97    | 252  | 1257 | 1483 | 0    | 1585 |
| Grp Volume(v), veh/h   | 134   | 438  | 458  | 48   | 637   | 645  | 23    | 0    | 0    | 45   | 0    | 57   |
| Grp Sat Flow(s), veh/h/ln  | 431   | 1777 | 1862 | 621  | 1777  | 1793 | 1606  | 0    | 0    | 1483 | 0    | 1585 |
| Q Serve(g_s), s  | 5.8   | 0.0  | 0.0  | 1.5  | 10.0  | 10.1 | 0.0   | 0.0  | 0.0  | 1.7  | 0.0  | 4.2  |
| Cycle Q Clear(g_c), s  | 15.8  | 0.0  | 0.0  | 1.5  | 10.0  | 10.1 | 1.6   | 0.0  | 0.0  | 3.3  | 0.0  | 4.2  |
| Prop In Lane   | 1.00  |      | 0.03 | 1.00 |       | 0.24 | 0.13  |      | 0.78 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 391   | 1512 | 1584 | 589  | 1512  | 1526 | 126   | 0    | 0    | 145  | 0    | 91   |
| V/C Ratio(X)   | 0.34  | 0.29 | 0.29 | 0.08 | 0.42  | 0.42 | 0.18  | 0.00 | 0.00 | 0.31 | 0.00 | 0.63 |
| Avail Cap(c_a), veh/h  | 391   | 1512 | 1584 | 589  | 1512  | 1526 | 449   | 0    | 0    | 425  | 0    | 409  |
| HCM Platoon Ratio  | 2.00  | 2.00 | 2.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.94  | 0.94 | 0.94 | 0.52 | 0.52  | 0.52 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh   | 0.8   | 0.0  | 0.0  | 1.4  | 2.1   | 2.1  | 54.1  | 0.0  | 0.0  | 54.8 | 0.0  | 55.3 |
| Incr Delay (d2), s/veh   | 2.2   | 0.5  | 0.4  | 0.1  | 0.4   | 0.4  | 0.3   | 0.0  | 0.0  | 0.4  | 0.0  | 2.6  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.2   | 0.2  | 0.2  | 0.1  | 2.0   | 2.1  | 0.7   | 0.0  | 0.0  | 1.3  | 0.0  | 1.8  |
| Unsig. Movement Delay, s/veh   |       |      |      |      |       |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 3.0   | 0.5  | 0.4  | 1.6  | 2.5   | 2.5  | 54.3  | 0.0  | 0.0  | 55.2 | 0.0  | 57.9 |
| LnGrp LOS  | A     | A    | A    | A    | A     | A    | D     | A    | A    | E    | A    | E    |
| Approach Vol, veh/h  | 1030  |      |      | 1330 |       |      | 23    |      |      | 102  |      |      |
| Approach Delay, s/veh  | 0.8   |      |      | 2.5  |       |      | 54.3  |      |      | 56.7 |      |      |
| Approach LOS   | A     |      |      | A    |       |      | D     |      |      | E    |      |      |
| Timer - Assigned Phs   | 2     |      | 4    |      | 6     |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 107.5 |      | 12.5 |      | 107.5 |      | 12.5  |      |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.4 |      | 5.6  |      | * 5.4 |      | * 5.6 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | * 78  |      | 31.0 |      | * 78  |      | * 32  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 17.8  |      | 6.2  |      | 12.1  |      | 3.6   |      |      |      |      |      |
| Green Ext Time (p_c), s  | 6.1   |      | 0.2  |      | 7.2   |      | 0.1   |      |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |      |       |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      | 4.5  |      |       |      |       |      |      |      |      |      |
| HCM 6th LOS  |       |      | A    |      |       |      |       |      |      |      |      |      |
| <b>Notes</b>   |       |      |      |      |       |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |      |       |      |       |      |      |      |      |      |

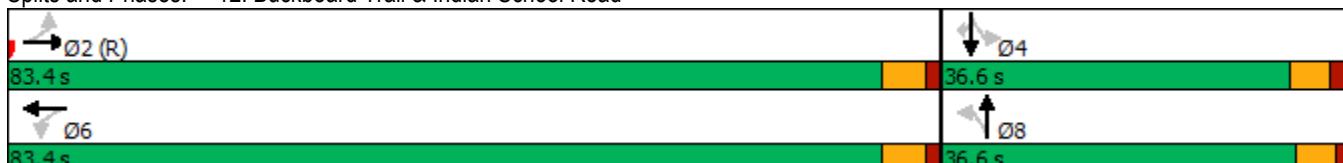


| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | EBTL  | SBTL  | WBTL  | NBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | None  | Max   | None  |
| Maximum Split (s)      | 83.4  | 36.6  | 83.4  | 36.6  |
| Maximum Split (%)      | 69.5% | 30.5% | 69.5% | 30.5% |
| Minimum Split (s)      | 27.4  | 36.6  | 27.4  | 36    |
| Yellow Time (s)        | 4     | 3.6   | 4     | 3.6   |
| All-Red Time (s)       | 1.4   | 2     | 1.4   | 1.4   |
| Minimum Initial (s)    | 10    | 7     | 10    | 7     |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 7     | 7     |
| Flash Dont Walk (s)    | 15    | 24    | 15    | 24    |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 19    | 102.4 | 19    | 102.4 |
| End Time (s)           | 102.4 | 19    | 102.4 | 19    |
| Yield/Force Off (s)    | 97    | 13.4  | 97    | 14    |
| Yield/Force Off 170(s) | 82    | 109.4 | 82    | 110   |
| Local Start Time (s)   | 0     | 83.4  | 0     | 83.4  |
| Local Yield (s)        | 78    | 114.4 | 78    | 115   |
| Local Yield 170(s)     | 63    | 90.4  | 63    | 91    |

#### Intersection Summary

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 19 (16%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 12: Buckboard Trail & Indian School Road



| Movement   | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑↓   |       | ↑     | ↑↑    | ↑     | ↑     | ↑↑    | ↑    | ↑↑↓  | ↑↑   |      |
| Traffic Volume (veh/h)   | 90    | 629   | 49    | 324   | 1181  | 210   | 73    | 383   | 187  | 90   | 147  | 18   |
| Future Volume (veh/h)  | 90    | 629   | 49    | 324   | 1181  | 210   | 73    | 383   | 187  | 90   | 147  | 18   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |       |       | No    |       |       | No    |       |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 98    | 684   | 53    | 352   | 1284  | 228   | 79    | 416   | 203  | 98   | 160  | 20   |
| Peak Hour Factor   | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 131   | 997   | 77    | 471   | 1593  | 711   | 202   | 897   | 400  | 293  | 714  | 88   |
| Arrive On Green  | 0.04  | 0.30  | 0.30  | 0.19  | 0.45  | 0.45  | 0.11  | 0.25  | 0.25 | 0.08 | 0.22 | 0.22 |
| Sat Flow, veh/h  | 1781  | 3342  | 259   | 1781  | 3554  | 1585  | 1781  | 3554  | 1585 | 3456 | 3184 | 392  |
| Grp Volume(v), veh/h   | 98    | 363   | 374   | 352   | 1284  | 228   | 79    | 416   | 203  | 98   | 88   | 92   |
| Grp Sat Flow(s), veh/h/ln  | 1781  | 1777  | 1824  | 1781  | 1777  | 1585  | 1781  | 1777  | 1585 | 1728 | 1777 | 1800 |
| Q Serve(g_s), s  | 2.4   | 21.6  | 21.7  | 12.8  | 37.5  | 11.1  | 4.9   | 11.9  | 13.2 | 3.2  | 4.9  | 5.0  |
| Cycle Q Clear(g_c), s  | 2.4   | 21.6  | 21.7  | 12.8  | 37.5  | 11.1  | 4.9   | 11.9  | 13.2 | 3.2  | 4.9  | 5.0  |
| Prop In Lane   | 1.00  |       | 0.14  | 1.00  |       | 1.00  | 1.00  |       | 1.00 | 1.00 |      | 0.22 |
| Lane Grp Cap(c), veh/h   | 131   | 530   | 544   | 471   | 1593  | 711   | 202   | 897   | 400  | 293  | 398  | 403  |
| V/C Ratio(X)   | 0.75  | 0.69  | 0.69  | 0.75  | 0.81  | 0.32  | 0.39  | 0.46  | 0.51 | 0.33 | 0.22 | 0.23 |
| Avail Cap(c_a), veh/h  | 174   | 530   | 544   | 514   | 1593  | 711   | 202   | 897   | 400  | 293  | 398  | 403  |
| HCM Platoon Ratio  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.97  | 0.97  | 0.97  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 55.7  | 37.1  | 37.1  | 40.9  | 28.6  | 21.3  | 49.4  | 38.0  | 38.4 | 51.7 | 38.0 | 38.1 |
| Incr Delay (d2), s/veh   | 7.1   | 6.9   | 6.7   | 4.5   | 4.5   | 1.2   | 0.5   | 1.7   | 4.5  | 0.2  | 1.3  | 1.3  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 3.1   | 10.3  | 10.5  | 10.0  | 16.3  | 4.3   | 2.2   | 5.4   | 5.6  | 1.4  | 2.3  | 2.3  |
| Unsig. Movement Delay, s/veh   |       |       |       |       |       |       |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 62.9  | 44.0  | 43.9  | 45.4  | 33.1  | 22.5  | 49.8  | 39.7  | 43.0 | 52.0 | 39.3 | 39.4 |
| LnGrp LOS  | E     | D     | D     | D     | C     | C     | D     | D     | D    | D    | D    | D    |
| Approach Vol, veh/h  |       | 835   |       |       | 1864  |       |       | 698   |      | 278  |      |      |
| Approach Delay, s/veh  |       | 46.1  |       |       | 34.1  |       |       | 41.8  |      | 43.8 |      |      |
| Approach LOS   |       | D     |       |       | C     |       |       | D     |      | D    |      |      |
| Timer - Assigned Phs   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 18.9  | 32.0  | 10.1  | 59.0  | 15.5  | 35.4  | 28.1  | 41.0  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.3 | * 5.1 | * 5.3 | * 5.2 | * 5.3 | * 5.1 | * 5.3 | * 5.2 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 11  | * 27  | * 7.7 | * 54  | * 7.3 | * 30  | * 26  | * 36  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 6.9   | 7.0   | 4.4   | 39.5  | 5.2   | 15.2  | 14.8  | 23.7  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.0   | 0.1   | 0.0   | 1.8   | 0.0   | 0.4   | 0.4   | 0.6   |      |      |      |      |
| <b>Intersection Summary</b>  |       |       |       |       |       |       |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       | 39.0  |       |       |       |       |       |       |      |      |      |      |
| HCM 6th LOS  |       |       | D     |       |       |       |       |       |      |      |      |      |
| <b>Notes</b>   |       |       |       |       |       |       |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |       |       |       |       |       |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBTL  | SBL   | NBT   | WBL   | EBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 16    | 32    | 13    | 59    | 12.6  | 35.4  | 31    | 41    |
| Maximum Split (%)      | 13.3% | 26.7% | 10.8% | 49.2% | 10.5% | 29.5% | 25.8% | 34.2% |
| Minimum Split (s)      | 10.3  | 29.1  | 10.3  | 28.2  | 10.3  | 29.1  | 10.3  | 30.2  |
| Yellow Time (s)        | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.1   | 2     | 1.2   | 2     | 1.1   | 2     | 1.2   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 20    |       | 19    |       | 20    |       | 21    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 31    | 119   | 106   | 47    | 34.4  | 119   | 88    | 47    |
| End Time (s)           | 47    | 31    | 119   | 106   | 47    | 34.4  | 119   | 88    |
| Yield/Force Off (s)    | 41.7  | 25.9  | 113.7 | 100.8 | 41.7  | 29.3  | 113.7 | 82.8  |
| Yield/Force Off 170(s) | 41.7  | 5.9   | 113.7 | 81.8  | 41.7  | 9.3   | 113.7 | 61.8  |
| Local Start Time (s)   | 32    | 0     | 107   | 48    | 35.4  | 0     | 89    | 48    |
| Local Yield (s)        | 42.7  | 26.9  | 114.7 | 101.8 | 42.7  | 30.3  | 114.7 | 83.8  |
| Local Yield 170(s)     | 42.7  | 6.9   | 114.7 | 82.8  | 42.7  | 10.3  | 114.7 | 62.8  |

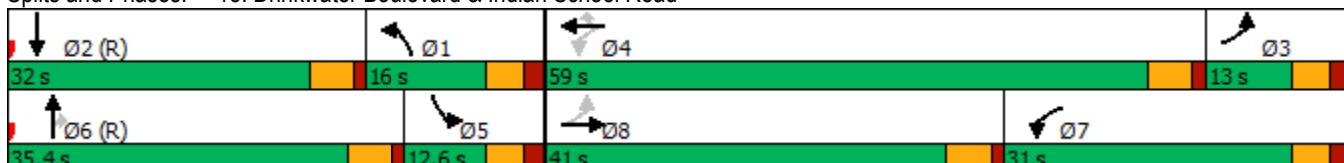
**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 119 (99%), Referenced to phase 2:SBT and 6:NBT, Start of Green

**Splits and Phases:** 13: Drinkwater Boulevard & Indian School Road

**Intersection**

Int Delay, s/veh 1.3

| Movement                 | WBL  | WBR  | NBT  | NBR  | SBL  | SBT  |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations      | W    |      | ↑↑   |      | ↑    | ↑↑↑  |
| Traffic Vol, veh/h       | 50   | 95   | 656  | 50   | 34   | 786  |
| Future Vol, veh/h        | 50   | 95   | 656  | 50   | 34   | 786  |
| Conflicting Peds, #/hr   | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control             | Stop | Stop | Free | Free | Free | Free |
| RT Channelized           | -    | None | -    | None | -    | None |
| Storage Length           | 0    | -    | -    | -    | 100  | -    |
| Veh in Median Storage, # | 0    | -    | 0    | -    | -    | 0    |
| Grade, %                 | 0    | -    | 0    | -    | -    | 0    |
| Peak Hour Factor         | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                | 54   | 103  | 713  | 54   | 37   | 854  |

| Major/Minor          | Minor1 | Major1 | Major2 |   |       |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 1156   | 384    | 0      | 0 | 767   |
| Stage 1              | 740    | -      | -      | - | -     |
| Stage 2              | 416    | -      | -      | - | -     |
| Critical Hdwy        | 6.29   | 6.94   | -      | - | 4.14  |
| Critical Hdwy Stg 1  | 5.84   | -      | -      | - | -     |
| Critical Hdwy Stg 2  | 6.04   | -      | -      | - | -     |
| Follow-up Hdwy       | 3.67   | 3.32   | -      | - | 2.22  |
| Pot Cap-1 Maneuver   | *669   | *820   | -      | - | *1227 |
| Stage 1              | *742   | -      | -      | - | -     |
| Stage 2              | *599   | -      | -      | - | -     |
| Platoon blocked, %   | 1      | 1      | -      | - | 1     |
| Mov Cap-1 Maneuver   | *649   | *820   | -      | - | *1227 |
| Mov Cap-2 Maneuver   | *362   | -      | -      | - | -     |
| Stage 1              | *742   | -      | -      | - | -     |
| Stage 2              | *581   | -      | -      | - | -     |

| Approach             | WB   | NB | SB  |
|----------------------|------|----|-----|
| HCM Control Delay, s | 13.7 | 0  | 0.3 |
| HCM LOS              | B    |    |     |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL    | SBT |
|-----------------------|-----|-----|-------|--------|-----|
| Capacity (veh/h)      | -   | -   | 571   | * 1227 | -   |
| HCM Lane V/C Ratio    | -   | -   | 0.276 | 0.03   | -   |
| HCM Control Delay (s) | -   | -   | 13.7  | 8      | -   |
| HCM Lane LOS          | -   | -   | B     | A      | -   |
| HCM 95th %tile Q(veh) | -   | -   | 1.1   | 0.1    | -   |

**Notes**

~: Volume exceeds capacity    \$: Delay exceeds 300s    +: Computation Not Defined    \*: All major volume in platoon

## Intersection

Int Delay, s/veh 1.8

| Movement                   | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| <b>Lane Configurations</b> |      |      |      |      |      |      |      |      |      |      |      |      |
| Traffic Vol, veh/h         | 0    | 103  | 29   | 21   | 134  | 0    | 14   | 0    | 31   | 0    | 0    | 0    |
| Future Vol, veh/h          | 0    | 103  | 29   | 21   | 134  | 0    | 14   | 0    | 31   | 0    | 0    | 0    |
| Conflicting Peds, #/hr     | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Sign Control               | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized             | -    | -    | None |
| Storage Length             | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| Veh in Median Storage, #   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Grade, %                   | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    | -    | 0    | -    |
| Peak Hour Factor           | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   | 92   |
| Heavy Vehicles, %          | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Mvmt Flow                  | 0    | 112  | 32   | 23   | 146  | 0    | 15   | 0    | 34   | 0    | 0    | 0    |

| Major/Minor          | Major1 | Major2 |   |       | Minor1 |   |       | Minor2 |       |       |       |       |
|----------------------|--------|--------|---|-------|--------|---|-------|--------|-------|-------|-------|-------|
| Conflicting Flow All | 146    | 0      | 0 | 144   | 0      | 0 | 320   | 320    | 128   | 337   | 336   | 146   |
| Stage 1              | -      | -      | - | -     | -      | - | 128   | 128    | -     | 192   | 192   | -     |
| Stage 2              | -      | -      | - | -     | -      | - | 192   | 192    | -     | 145   | 144   | -     |
| Critical Hdwy        | 4.12   | -      | - | 4.12  | -      | - | 7.12  | 6.52   | 6.22  | 7.12  | 6.52  | 6.22  |
| Critical Hdwy Stg 1  | -      | -      | - | -     | -      | - | 6.12  | 5.52   | -     | 6.12  | 5.52  | -     |
| Critical Hdwy Stg 2  | -      | -      | - | -     | -      | - | 6.12  | 5.52   | -     | 6.12  | 5.52  | -     |
| Follow-up Hdwy       | 2.218  | -      | - | 2.218 | -      | - | 3.518 | 4.018  | 3.318 | 3.518 | 4.018 | 3.318 |
| Pot Cap-1 Maneuver   | 1452   | -      | - | 1438  | -      | - | 668   | 619    | 922   | 650   | 605   | 947   |
| Stage 1              | -      | -      | - | -     | -      | - | 876   | 790    | -     | 844   | 758   | -     |
| Stage 2              | -      | -      | - | -     | -      | - | 844   | 758    | -     | 858   | 778   | -     |
| Platoon blocked, %   | 1      | -      | - | -     | -      | - | 1     | 1      | -     | 1     | 1     | 1     |
| Mov Cap-1 Maneuver   | 1452   | -      | - | 1438  | -      | - | 659   | 609    | 922   | 618   | 595   | 947   |
| Mov Cap-2 Maneuver   | -      | -      | - | -     | -      | - | 659   | 609    | -     | 618   | 595   | -     |
| Stage 1              | -      | -      | - | -     | -      | - | 876   | 790    | -     | 844   | 745   | -     |
| Stage 2              | -      | -      | - | -     | -      | - | 830   | 745    | -     | 827   | 778   | -     |

| Approach              | EB    | WB   |     |     | NB    |     |     | SB  |       |  |  |  |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-----|-------|--|--|--|
| HCM Control Delay, s  | 0     | 1    |     |     | 9.7   |     |     | 0   |       |  |  |  |
| HCM LOS               |       |      |     |     | A     |     |     | A   |       |  |  |  |
| <hr/>                 |       |      |     |     |       |     |     |     |       |  |  |  |
| Minor Lane/Major Mvmt | NBLn1 | EBL  | EBT | EBR | WBL   | WBT | WBR | SBL | SBLn1 |  |  |  |
| Capacity (veh/h)      | 820   | 1452 | -   | -   | 1438  | -   | -   | -   | -     |  |  |  |
| HCM Lane V/C Ratio    | 0.06  | -    | -   | -   | 0.016 | -   | -   | -   | -     |  |  |  |
| HCM Control Delay (s) | 9.7   | 0    | -   | -   | 7.5   | 0   | -   | 0   |       |  |  |  |
| HCM Lane LOS          | A     | A    | -   | -   | A     | A   | -   | A   |       |  |  |  |
| HCM 95th %tile Q(veh) | 0.2   | 0    | -   | -   | 0     | -   | -   | -   |       |  |  |  |

| Intersection             |        |        |        |      |       |       |
|--------------------------|--------|--------|--------|------|-------|-------|
| Int Delay, s/veh         | 1.9    |        |        |      |       |       |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL   | SBR   |
| Lane Configurations      |        |        |        |      |       |       |
| Traffic Vol, veh/h       | 25     | 109    | 131    | 17   | 21    | 24    |
| Future Vol, veh/h        | 25     | 109    | 131    | 17   | 21    | 24    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None | -     | None  |
| Storage Length           | -      | -      | -      | -    | 0     | -     |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0     | -     |
| Grade, %                 | -      | 0      | 0      | -    | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2     | 2     |
| Mvmt Flow                | 27     | 118    | 142    | 18   | 23    | 26    |
| Major/Minor              | Major1 | Major2 | Minor2 |      |       |       |
| Conflicting Flow All     | 160    | 0      | -      | 0    | 323   | 151   |
| Stage 1                  | -      | -      | -      | -    | 151   | -     |
| Stage 2                  | -      | -      | -      | -    | 172   | -     |
| Critical Hdwy            | 4.12   | -      | -      | -    | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | 5.42  | -     |
| Follow-up Hdwy           | 2.218  | -      | -      | -    | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | 1435   | -      | -      | -    | 699   | 945   |
| Stage 1                  | -      | -      | -      | -    | 903   | -     |
| Stage 2                  | -      | -      | -      | -    | 858   | -     |
| Platoon blocked, %       | 1      | -      | -      | -    | 1     | 1     |
| Mov Cap-1 Maneuver       | 1435   | -      | -      | -    | 685   | 945   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | 685   | -     |
| Stage 1                  | -      | -      | -      | -    | 885   | -     |
| Stage 2                  | -      | -      | -      | -    | 858   | -     |
| Approach                 | EB     | WB     | SB     |      |       |       |
| HCM Control Delay, s     | 1.4    | 0      | 9.8    |      |       |       |
| HCM LOS                  |        |        | A      |      |       |       |
| Minor Lane/Major Mvmt    | EBL    | EBT    | WBT    | WBR  | SBLn1 | SBLn2 |
| Capacity (veh/h)         | 1435   | -      | -      | -    | 803   | -     |
| HCM Lane V/C Ratio       | 0.019  | -      | -      | -    | 0.061 | -     |
| HCM Control Delay (s)    | 7.6    | 0      | -      | -    | 9.8   | -     |
| HCM Lane LOS             | A      | A      | -      | -    | A     | -     |
| HCM 95th %tile Q(veh)    | 0.1    | -      | -      | -    | 0.2   | -     |

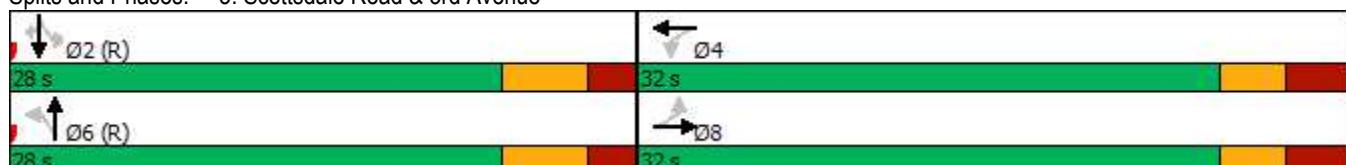
| Intersection             |        |        |        |       |       |       |
|--------------------------|--------|--------|--------|-------|-------|-------|
| Int Delay, s/veh         | 1.9    |        |        |       |       |       |
| Movement                 | EBT    | EBR    | WBL    | WBT   | NBL   | NBR   |
| Lane Configurations      | ↑      |        | ↔      | ↔     |       |       |
| Traffic Vol, veh/h       | 108    | 22     | 34     | 184   | 20    | 27    |
| Future Vol, veh/h        | 108    | 22     | 34     | 184   | 20    | 27    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0     | 0     |
| Sign Control             | Free   | Free   | Free   | Free  | Stop  | Stop  |
| RT Channelized           | -      | None   | -      | None  | -     | None  |
| Storage Length           | -      | -      | -      | -     | 0     | -     |
| Veh in Median Storage, # | 0      | -      | -      | 0     | 0     | -     |
| Grade, %                 | 0      | -      | -      | 0     | 0     | -     |
| Peak Hour Factor         | 92     | 92     | 92     | 92    | 92    | 92    |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2     | 2     |
| Mvmt Flow                | 117    | 24     | 37     | 200   | 22    | 29    |
| Major/Minor              | Major1 | Major2 | Minor1 |       |       |       |
| Conflicting Flow All     | 0      | 0      | 141    | 0     | 403   | 129   |
| Stage 1                  | -      | -      | -      | -     | 129   | -     |
| Stage 2                  | -      | -      | -      | -     | 274   | -     |
| Critical Hdwy            | -      | -      | 4.12   | -     | 6.42  | 6.22  |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | 5.42  | -     |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | 5.42  | -     |
| Follow-up Hdwy           | -      | -      | 2.218  | -     | 3.518 | 3.318 |
| Pot Cap-1 Maneuver       | -      | -      | 1442   | -     | 645   | 921   |
| Stage 1                  | -      | -      | -      | -     | 897   | -     |
| Stage 2                  | -      | -      | -      | -     | 806   | -     |
| Platoon blocked, %       | -      | -      | -      | -     | 1     | -     |
| Mov Cap-1 Maneuver       | -      | -      | 1442   | -     | 627   | 921   |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | 627   | -     |
| Stage 1                  | -      | -      | -      | -     | 897   | -     |
| Stage 2                  | -      | -      | -      | -     | 783   | -     |
| Approach                 | EB     | WB     | NB     |       |       |       |
| HCM Control Delay, s     | 0      | 1.2    | 10     |       |       |       |
| HCM LOS                  |        |        | B      |       |       |       |
| Minor Lane/Major Mvmt    | NBLn1  | EBT    | EBR    | WBL   | WBT   |       |
| Capacity (veh/h)         | 768    | -      | -      | 1442  | -     |       |
| HCM Lane V/C Ratio       | 0.067  | -      | -      | 0.026 | -     |       |
| HCM Control Delay (s)    | 10     | -      | -      | 7.6   | 0     |       |
| HCM Lane LOS             | B      | -      | -      | A     | A     |       |
| HCM 95th %tile Q(veh)    | 0.2    | -      | -      | 0.1   | -     |       |

| Movement                              | EBL  | EBT  | EBR  | WBL  | WBT  | WBR  | NBL  | NBT  | NBR  | SBL  | SBT  | SBR  |
|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations                   | ↑    | ↑    |      | ↑    | ↑    |      | ↑    | ↑↑   |      | ↑    | ↑↑   | ↑    |
| Traffic Volume (veh/h)                | 69   | 29   | 143  | 63   | 54   | 189  | 101  | 616  | 28   | 34   | 823  | 63   |
| Future Volume (veh/h)                 | 69   | 29   | 143  | 63   | 54   | 189  | 101  | 616  | 28   | 34   | 823  | 63   |
| Initial Q (Q <sub>b</sub> ), veh      | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)                   | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj                      | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach                 | No   |      |      | No   |      |      | No   |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln                | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h                  | 75   | 32   | 155  | 68   | 59   | 205  | 110  | 670  | 30   | 37   | 895  | 68   |
| Peak Hour Factor                      | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %                  | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h                            | 243  | 70   | 341  | 307  | 93   | 322  | 350  | 1895 | 85   | 528  | 1944 | 867  |
| Arrive On Green                       | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 1.00 | 1.00 | 1.00 | 0.55 | 0.55 | 0.55 |
| Sat Flow, veh/h                       | 1115 | 279  | 1349 | 1196 | 367  | 1274 | 583  | 3464 | 155  | 746  | 3554 | 1585 |
| Grp Volume(v), veh/h                  | 75   | 0    | 187  | 68   | 0    | 264  | 110  | 343  | 357  | 37   | 895  | 68   |
| Grp Sat Flow(s), veh/h/ln             | 1115 | 0    | 1628 | 1196 | 0    | 1641 | 583  | 1777 | 1842 | 746  | 1777 | 1585 |
| Q Serve(g_s), s                       | 3.9  | 0.0  | 5.8  | 3.1  | 0.0  | 8.6  | 4.8  | 0.0  | 0.0  | 1.4  | 9.2  | 1.2  |
| Cycle Q Clear(g_c), s                 | 12.4 | 0.0  | 5.8  | 8.9  | 0.0  | 8.6  | 14.0 | 0.0  | 0.0  | 1.4  | 9.2  | 1.2  |
| Prop In Lane                          | 1.00 |      | 0.83 | 1.00 |      | 0.78 | 1.00 |      | 0.08 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h                | 243  | 0    | 412  | 307  | 0    | 415  | 350  | 972  | 1008 | 528  | 1944 | 867  |
| V/C Ratio(X)                          | 0.31 | 0.00 | 0.45 | 0.22 | 0.00 | 0.64 | 0.31 | 0.35 | 0.35 | 0.07 | 0.46 | 0.08 |
| Avail Cap(c_a), veh/h                 | 444  | 0    | 705  | 522  | 0    | 711  | 350  | 972  | 1008 | 528  | 1944 | 867  |
| HCM Platoon Ratio                     | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 2.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)                    | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.64 | 0.64 | 0.64 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh              | 25.5 | 0.0  | 18.9 | 22.7 | 0.0  | 19.9 | 1.9  | 0.0  | 0.0  | 6.5  | 8.2  | 6.4  |
| Incr Delay (d2), s/veh                | 0.3  | 0.0  | 0.3  | 0.1  | 0.0  | 0.6  | 1.5  | 0.6  | 0.6  | 0.3  | 0.8  | 0.2  |
| Initial Q Delay(d3), s/veh            | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln             | 1.0  | 0.0  | 2.1  | 0.8  | 0.0  | 3.1  | 0.1  | 0.2  | 0.2  | 0.2  | 3.0  | 0.4  |
| Unsig. Movement Delay, s/veh          |      |      |      |      |      |      |      |      |      |      |      |      |
| LnGrp Delay(d), s/veh                 | 25.8 | 0.0  | 19.2 | 22.8 | 0.0  | 20.6 | 3.4  | 0.6  | 0.6  | 6.7  | 9.0  | 6.6  |
| LnGrp LOS                             | C    | A    | B    | C    | A    | C    | A    | A    | A    | A    | A    | A    |
| Approach Vol, veh/h                   | 262  |      |      |      | 332  |      |      | 810  |      |      | 1000 |      |
| Approach Delay, s/veh                 | 21.1 |      |      |      | 21.0 |      |      | 1.0  |      |      | 8.8  |      |
| Approach LOS                          | C    |      |      |      | C    |      |      | A    |      |      | A    |      |
| Timer - Assigned Phs                  | 2    |      | 4    |      | 6    |      | 8    |      |      |      |      |      |
| Phs Duration (G+Y+R <sub>c</sub> ), s | 38.8 |      | 21.2 |      | 38.8 |      | 21.2 |      |      |      |      |      |
| Change Period (Y+R <sub>c</sub> ), s  | 6.0  |      | 6.0  |      | 6.0  |      | 6.0  |      |      |      |      |      |
| Max Green Setting (Gmax), s           | 22.0 |      | 26.0 |      | 22.0 |      | 26.0 |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s          | 11.2 |      | 10.9 |      | 16.0 |      | 14.4 |      |      |      |      |      |
| Green Ext Time (p_c), s               | 2.3  |      | 1.1  |      | 1.3  |      | 0.7  |      |      |      |      |      |
| <b>Intersection Summary</b>           |      |      |      |      |      |      |      |      |      |      |      |      |
| HCM 6th Ctrl Delay                    |      |      | 9.2  |      |      |      |      |      |      |      |      |      |
| HCM 6th LOS                           |      |      | A    |      |      |      |      |      |      |      |      |      |

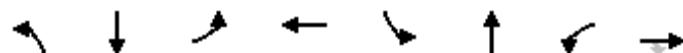


| Phase Number  | 2                    | 4     | 6     | 8     |
|---|----------------------|-------|-------|-------|
| Movement  | SBTL                 | WBTL  | NBTL  | EBTL  |
| <b>Lead/Lag</b>   |                      |       |       |       |
| <b>Lead-Lag Optimize</b>  |                      |       |       |       |
| Recall Mode   | C-Max                | None  | C-Max | None  |
| Maximum Split (s)   | 28                   | 32    | 28    | 32    |
| Maximum Split (%)   | 46.7%                | 53.3% | 46.7% | 53.3% |
| Minimum Split (s)   | 23                   | 32    | 23    | 32    |
| Yellow Time (s)   | 3.8                  | 3     | 3.8   | 3     |
| All-Red Time (s)  | 2.2                  | 3     | 2.2   | 3     |
| Minimum Initial (s)   | 10                   | 10    | 10    | 10    |
| Vehicle Extension (s)   | 1                    | 2     | 1     | 2     |
| Minimum Gap (s)   | 3                    | 3     | 3     | 3     |
| Time Before Reduce (s)  | 0                    | 0     | 0     | 0     |
| Time To Reduce (s)  | 0                    | 0     | 0     | 0     |
| Walk Time (s)   | 7                    | 7     | 7     | 7     |
| Flash Dont Walk (s)   | 10                   | 19    | 10    | 19    |
| Dual Entry  | Yes                  | Yes   | Yes   | Yes   |
| Inhibit Max   | Yes                  | Yes   | Yes   | Yes   |
| Start Time (s)  | 27                   | 55    | 27    | 55    |
| End Time (s)  | 55                   | 27    | 55    | 27    |
| Yield/Force Off (s)   | 49                   | 21    | 49    | 21    |
| Yield/Force Off 170(s)  | 39                   | 2     | 39    | 2     |
| Local Start Time (s)  | 0                    | 28    | 0     | 28    |
| Local Yield (s)   | 22                   | 54    | 22    | 54    |
| Local Yield 170(s)  | 12                   | 35    | 12    | 35    |
| <b>Intersection Summary</b>   |                      |       |       |       |
| Cycle Length  | 60                   |       |       |       |
| Control Type  | Actuated-Coordinated |       |       |       |
| Natural Cycle   | 60                   |       |       |       |
| Offset: 27 (45%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green |                      |       |       |       |

Splits and Phases: 5: Scottsdale Road & 3rd Avenue



| Movement   | EBL   | EBT  | EBR  | WBL   | WBT   | WBR  | NBL   | NBT   | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|-------|-------|------|-------|-------|------|------|------|------|
| Lane Configurations  | ↑↑    | ↑↑   | ↑    | ↑↑    | ↑↑    | 60   | 98    | 384   | 47   | 82   | 577  | 183  |
| Traffic Volume (veh/h)   | 251   | 739  | 64   | 75    | 659   | 60   | 98    | 384   | 47   | 82   | 577  | 183  |
| Future Volume (veh/h)  | 251   | 739  | 64   | 75    | 659   | 60   | 98    | 384   | 47   | 82   | 577  | 183  |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0     | 0     | 0    | 0     | 0     | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00  |       | 1.00 | 1.00  |       | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00  | 1.00  | 1.00 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      | No   |       | No    |      | No    |       | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870  | 1870  | 1870 | 1870  | 1870  | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 273   | 803  | 70   | 82    | 716   | 65   | 107   | 417   | 51   | 89   | 627  | 199  |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92  | 0.92  | 0.92 | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2     | 2     | 2    | 2     | 2     | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 388   | 1327 | 592  | 135   | 980   | 89   | 253   | 904   | 110  | 220  | 1016 | 316  |
| Arrive On Green  | 0.11  | 0.37 | 0.37 | 0.03  | 0.20  | 0.20 | 0.14  | 0.28  | 0.28 | 0.12 | 0.26 | 0.26 |
| Sat Flow, veh/h  | 3456  | 3554 | 1585 | 3456  | 3294  | 299  | 1781  | 3189  | 388  | 1781 | 3857 | 1201 |
| Grp Volume(v), veh/h   | 273   | 803  | 70   | 82    | 386   | 395  | 107   | 231   | 237  | 89   | 552  | 274  |
| Grp Sat Flow(s), veh/h/ln  | 1728  | 1777 | 1585 | 1728  | 1777  | 1817 | 1781  | 1777  | 1801 | 1781 | 1702 | 1654 |
| Q Serve(g_s), s  | 9.1   | 22.0 | 2.2  | 2.8   | 24.4  | 24.5 | 6.6   | 12.9  | 13.0 | 5.5  | 17.1 | 17.6 |
| Cycle Q Clear(g_c), s  | 9.1   | 22.0 | 2.2  | 2.8   | 24.4  | 24.5 | 6.6   | 12.9  | 13.0 | 5.5  | 17.1 | 17.6 |
| Prop In Lane   | 1.00  |      | 1.00 | 1.00  |       | 0.16 | 1.00  |       | 0.22 | 1.00 |      | 0.73 |
| Lane Grp Cap(c), veh/h   | 388   | 1327 | 592  | 135   | 529   | 540  | 253   | 503   | 510  | 220  | 896  | 436  |
| V/C Ratio(X)   | 0.70  | 0.61 | 0.12 | 0.61  | 0.73  | 0.73 | 0.42  | 0.46  | 0.46 | 0.40 | 0.62 | 0.63 |
| Avail Cap(c_a), veh/h  | 452   | 1327 | 592  | 196   | 529   | 540  | 253   | 503   | 510  | 220  | 896  | 436  |
| HCM Platoon Ratio  | 1.00  | 1.00 | 1.00 | 0.67  | 0.67  | 0.67 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 1.00  | 1.00 | 1.00 | 0.90  | 0.90  | 0.90 | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh   | 51.3  | 30.4 | 9.7  | 57.5  | 43.5  | 43.5 | 47.0  | 35.4  | 35.5 | 48.5 | 38.9 | 39.0 |
| Incr Delay (d2), s/veh   | 2.9   | 2.1  | 0.4  | 1.5   | 7.8   | 7.7  | 0.4   | 3.0   | 3.0  | 0.4  | 3.2  | 6.7  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0   | 0.0   | 0.0  | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 4.1   | 9.6  | 1.3  | 1.3   | 12.3  | 12.5 | 2.9   | 5.9   | 6.1  | 2.5  | 7.5  | 7.9  |
| Unsig. Movement Delay, s/veh   |       |      |      |       |       |      |       |       |      |      |      |      |
| LnGrp Delay(d), s/veh  | 54.3  | 32.5 | 10.1 | 59.0  | 51.3  | 51.2 | 47.4  | 38.4  | 38.5 | 49.0 | 42.0 | 45.8 |
| LnGrp LOS  | D     | C    | B    | E     | D     | D    | D     | D     | D    | D    | D    | D    |
| Approach Vol, veh/h  | 1146  |      |      |       | 863   |      |       | 575   |      |      | 915  |      |
| Approach Delay, s/veh  | 36.3  |      |      |       | 52.0  |      |       | 40.1  |      |      | 43.8 |      |
| Approach LOS   | D     |      |      |       | D     |      |       | D     |      |      | D    |      |
| Timer - Assigned Phs   | 1     | 2    | 3    | 4     | 5     | 6    | 7     | 8     |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 22.6  | 37.3 | 18.9 | 41.2  | 20.4  | 39.5 | 9.9   | 50.2  |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.6 | 5.7  | 5.4  | * 5.5 | * 5.6 | 5.5  | * 5.2 | * 5.4 |      |      |      |      |
| Max Green Setting (Gmax), s  | * 15  | 31.6 | 15.7 | * 36  | * 13  | 34.0 | * 6.8 | * 45  |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 8.6   | 19.6 | 11.1 | 26.5  | 7.5   | 15.0 | 4.8   | 24.0  |      |      |      |      |
| Green Ext Time (p_c), s  | 0.1   | 1.8  | 0.2  | 1.3   | 0.0   | 0.9  | 0.0   | 2.1   |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |       |       |      |       |       |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      |      | 42.8  |       |      |       |       |      |      |      |      |
| HCM 6th LOS  |       |      |      | D     |       |      |       |       |      |      |      |      |
| <b>Notes</b>   |       |      |      |       |       |      |       |       |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |       |       |      |       |       |      |      |      |      |



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBT   | SBL   | NBT   | WBL   | EBT   |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lead  | Lag   |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 20.5  | 37.3  | 21    | 41.2  | 18.3  | 39.5  | 12    | 50.2  |
| Maximum Split (%)      | 17.1% | 31.1% | 17.5% | 34.3% | 15.3% | 32.9% | 10.0% | 41.8% |
| Minimum Split (s)      | 10.6  | 33.7  | 10.3  | 31.5  | 10.6  | 37.5  | 10.2  | 31.4  |
| Yellow Time (s)        | 3.6   | 4.4   | 3.3   | 4     | 3.6   | 4.4   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.3   | 2     | 1.5   | 2     | 1.1   | 1.9   | 1.4   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 1     | 2     | 1     | 2     | 1     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 24    |       | 22    |       | 28    |       | 22    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 42.3  | 5     | 104   | 62.8  | 44.5  | 5     | 62.8  | 74.8  |
| End Time (s)           | 62.8  | 42.3  | 5     | 104   | 62.8  | 44.5  | 74.8  | 5     |
| Yield/Force Off (s)    | 57.2  | 36.6  | 119.7 | 98.5  | 57.2  | 39    | 69.6  | 119.6 |
| Yield/Force Off 170(s) | 57.2  | 12.6  | 119.7 | 76.5  | 57.2  | 11    | 69.6  | 97.6  |
| Local Start Time (s)   | 37.3  | 0     | 99    | 57.8  | 39.5  | 0     | 57.8  | 69.8  |
| Local Yield (s)        | 52.2  | 31.6  | 114.7 | 93.5  | 52.2  | 34    | 64.6  | 114.6 |
| Local Yield 170(s)     | 52.2  | 7.6   | 114.7 | 71.5  | 52.2  | 6     | 64.6  | 92.6  |

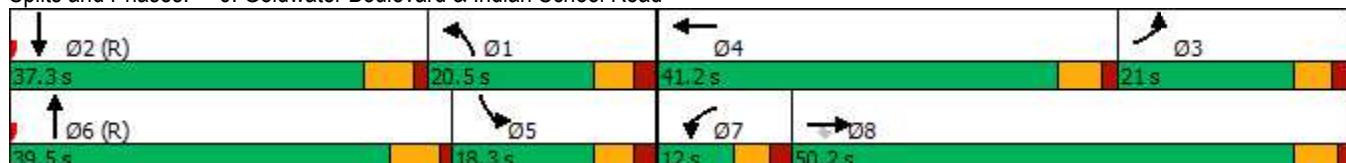
**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 90

Offset: 5 (4%), Referenced to phase 2:SBT and 6:NBT, Start of Green

**Splits and Phases:** 6: Goldwater Boulevard & Indian School Road

| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↑   |       | ↑    | ↑↑   |      |       | ↔    |      |      | ↔    |      |
| Traffic Volume (veh/h)   | 34   | 821  | 34    | 61   | 801  | 63   | 19    | 19   | 34   | 15   | 37   | 51   |
| Future Volume (veh/h)  | 34   | 821  | 34    | 61   | 801  | 63   | 19    | 19   | 34   | 15   | 37   | 51   |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      | No   |      | No   |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 37   | 892  | 37    | 66   | 871  | 68   | 21    | 21   | 37   | 16   | 40   | 55   |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 346  | 2138 | 89    | 350  | 2054 | 160  | 143   | 147  | 222  | 83   | 202  | 246  |
| Arrive On Green  | 0.62 | 0.62 | 0.62  | 0.62 | 0.62 | 0.62 | 0.30  | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| Sat Flow, veh/h  | 597  | 3477 | 144   | 602  | 3340 | 261  | 351   | 492  | 743  | 162  | 675  | 822  |
| Grp Volume(v), veh/h   | 37   | 456  | 473   | 66   | 463  | 476  | 79    | 0    | 0    | 111  | 0    | 0    |
| Grp Sat Flow(s), veh/h/ln  | 597  | 1777 | 1844  | 602  | 1777 | 1823 | 1586  | 0    | 0    | 1659 | 0    | 0    |
| Q Serve(g_s), s  | 4.1  | 15.9 | 15.9  | 7.6  | 16.3 | 16.3 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| Cycle Q Clear(g_c), s  | 20.4 | 15.9 | 15.9  | 23.6 | 16.3 | 16.3 | 4.0   | 0.0  | 0.0  | 5.8  | 0.0  | 0.0  |
| Prop In Lane   | 1.00 |      | 0.08  | 1.00 |      | 0.14 | 0.27  |      | 0.47 | 0.14 |      | 0.50 |
| Lane Grp Cap(c), veh/h   | 346  | 1093 | 1134  | 350  | 1093 | 1121 | 512   | 0    | 0    | 531  | 0    | 0    |
| V/C Ratio(X)   | 0.11 | 0.42 | 0.42  | 0.19 | 0.42 | 0.42 | 0.15  | 0.00 | 0.00 | 0.21 | 0.00 | 0.00 |
| Avail Cap(c_a), veh/h  | 346  | 1093 | 1134  | 350  | 1093 | 1121 | 512   | 0    | 0    | 531  | 0    | 0    |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.81 | 0.81 | 0.81  | 1.00 | 1.00 | 1.00 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 |
| Uniform Delay (d), s/veh   | 17.4 | 12.0 | 12.0  | 18.1 | 12.0 | 12.0 | 30.9  | 0.0  | 0.0  | 31.5 | 0.0  | 0.0  |
| Incr Delay (d2), s/veh   | 0.5  | 1.0  | 0.9   | 1.2  | 1.2  | 1.2  | 0.6   | 0.0  | 0.0  | 0.9  | 0.0  | 0.0  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.6  | 6.2  | 6.5   | 1.2  | 6.5  | 6.6  | 1.8   | 0.0  | 0.0  | 2.6  | 0.0  | 0.0  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 17.9 | 12.9 | 12.9  | 19.3 | 13.2 | 13.2 | 31.5  | 0.0  | 0.0  | 32.4 | 0.0  | 0.0  |
| LnGrp LOS  | B    | B    | B     | B    | B    | B    | C     | A    | A    | C    | A    | A    |
| Approach Vol, veh/h  | 966  |      |       | 1005 |      |      | 79    |      |      | 111  |      |      |
| Approach Delay, s/veh  | 13.1 |      |       | 13.6 |      |      | 31.5  |      |      | 32.4 |      |      |
| Approach LOS   | B    |      |       | B    |      |      | C     |      |      | C    |      |      |
| Timer - Assigned Phs   | 2    |      | 4     |      | 6    |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 41.0 |      | 79.0  |      | 41.0 |      | 79.0  |      |      |      |      |      |
| Change Period (Y+Rc), s  | 5.1  |      | * 5.2 |      | 5.1  |      | * 5.2 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | 35.9 |      | * 74  |      | 35.9 |      | * 74  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 7.8  |      | 25.6  |      | 6.0  |      | 22.4  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 0.4  |      | 4.8   |      | 0.3  |      | 4.4   |      |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      | 15.0  |      |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      | B     |      |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| User approved pedestrian interval to be less than phase max green.                                 |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |



| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | SBTL  | WBTL  | NBTL  | EBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | Max   | C-Max | Max   |
| Maximum Split (s)      | 41    | 79    | 41    | 79    |
| Maximum Split (%)      | 34.2% | 65.8% | 34.2% | 65.8% |
| Minimum Split (s)      | 29.1  | 22.5  | 30.1  | 22.5  |
| Yellow Time (s)        | 3.6   | 4     | 3.6   | 4     |
| All-Red Time (s)       | 1.5   | 1.2   | 1.5   | 1.2   |
| Minimum Initial (s)    | 7     | 10    | 7     | 10    |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 8     | 7     |
| Flash Dont Walk (s)    | 17    | 7     | 17    | 8     |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 112   | 33    | 112   | 33    |
| End Time (s)           | 33    | 112   | 33    | 112   |
| Yield/Force Off (s)    | 27.9  | 106.8 | 27.9  | 106.8 |
| Yield/Force Off 170(s) | 10.9  | 99.8  | 10.9  | 98.8  |
| Local Start Time (s)   | 0     | 41    | 0     | 41    |
| Local Yield (s)        | 35.9  | 114.8 | 35.9  | 114.8 |
| Local Yield 170(s)     | 18.9  | 107.8 | 18.9  | 106.8 |

**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 60

Offset: 112 (93%), Referenced to phase 2:SBTL and 6:NBTL, Start of Green

Splits and Phases: 7: Marshall Way &amp; Indian School Road



| Intersection             |        |        |        |       |      |      |
|--------------------------|--------|--------|--------|-------|------|------|
| Int Delay, s/veh         | 0.1    |        |        |       |      |      |
| Movement                 | EBL    | EBT    | WBT    | WBR   | SBL  | SBR  |
| Lane Configurations      |        | ↑↑     | ↑↑     |       | ↗    |      |
| Traffic Vol, veh/h       | 0      | 870    | 914    | 27    | 0    | 11   |
| Future Vol, veh/h        | 0      | 870    | 914    | 27    | 0    | 11   |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0     | 0    | 0    |
| Sign Control             | Free   | Free   | Free   | Free  | Stop | Stop |
| RT Channelized           | -      | None   | -      | None  | -    | None |
| Storage Length           | -      | -      | -      | -     | -    | 0    |
| Veh in Median Storage, # | -      | 0      | 0      | -     | 0    | -    |
| Grade, %                 | -      | 0      | 0      | -     | 0    | -    |
| Peak Hour Factor         | 92     | 92     | 92     | 92    | 92   | 92   |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2     | 2    | 2    |
| Mvmt Flow                | 0      | 946    | 993    | 29    | 0    | 12   |
| Major/Minor              | Major1 | Major2 | Minor2 |       |      |      |
| Conflicting Flow All     | -      | 0      | -      | 0     | -    | 511  |
| Stage 1                  | -      | -      | -      | -     | -    | -    |
| Stage 2                  | -      | -      | -      | -     | -    | -    |
| Critical Hdwy            | -      | -      | -      | -     | -    | 6.94 |
| Critical Hdwy Stg 1      | -      | -      | -      | -     | -    | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -     | -    | -    |
| Follow-up Hdwy           | -      | -      | -      | -     | -    | 3.32 |
| Pot Cap-1 Maneuver       | 0      | -      | -      | -     | 0    | 508  |
| Stage 1                  | 0      | -      | -      | -     | 0    | -    |
| Stage 2                  | 0      | -      | -      | -     | 0    | -    |
| Platoon blocked, %       | -      | -      | -      | -     | -    | -    |
| Mov Cap-1 Maneuver       | -      | -      | -      | -     | -    | 508  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -     | -    | -    |
| Stage 1                  | -      | -      | -      | -     | -    | -    |
| Stage 2                  | -      | -      | -      | -     | -    | -    |
| Approach                 | EB     | WB     | SB     |       |      |      |
| HCM Control Delay, s     | 0      | 0      | 12.3   |       |      |      |
| HCM LOS                  |        |        | B      |       |      |      |
| Minor Lane/Major Mvmt    | EBT    | WBT    | WBR    | SBLn1 |      |      |
| Capacity (veh/h)         | -      | -      | -      | 508   |      |      |
| HCM Lane V/C Ratio       | -      | -      | -      | 0.024 |      |      |
| HCM Control Delay (s)    | -      | -      | -      | 12.3  |      |      |
| HCM Lane LOS             | -      | -      | -      | B     |      |      |
| HCM 95th %tile Q(veh)    | -      | -      | -      | 0.1   |      |      |

| Intersection             |        |        |        |      |      |      |
|--------------------------|--------|--------|--------|------|------|------|
| Int Delay, s/veh         | 0      |        |        |      |      |      |
| Movement                 | EBL    | EBT    | WBT    | WBR  | SBL  | SBR  |
| Lane Configurations      |        | ↑↑     | ↑↑     |      | ↗    |      |
| Traffic Vol, veh/h       | 0      | 870    | 940    | 0    | 0    | 1    |
| Future Vol, veh/h        | 0      | 870    | 940    | 0    | 0    | 1    |
| Conflicting Peds, #/hr   | 0      | 0      | 0      | 0    | 0    | 0    |
| Sign Control             | Free   | Free   | Free   | Free | Stop | Stop |
| RT Channelized           | -      | None   | -      | None | -    | None |
| Storage Length           | -      | -      | -      | -    | -    | 0    |
| Veh in Median Storage, # | -      | 0      | 0      | -    | 0    | -    |
| Grade, %                 | -      | 0      | 0      | -    | 0    | -    |
| Peak Hour Factor         | 92     | 92     | 92     | 92   | 92   | 92   |
| Heavy Vehicles, %        | 2      | 2      | 2      | 2    | 2    | 2    |
| Mvmt Flow                | 0      | 946    | 1022   | 0    | 0    | 1    |
| Major/Minor              | Major1 | Major2 | Minor2 |      |      |      |
| Conflicting Flow All     | -      | 0      | -      | 0    | -    | 511  |
| Stage 1                  | -      | -      | -      | -    | -    | -    |
| Stage 2                  | -      | -      | -      | -    | -    | -    |
| Critical Hdwy            | -      | -      | -      | -    | -    | 6.94 |
| Critical Hdwy Stg 1      | -      | -      | -      | -    | -    | -    |
| Critical Hdwy Stg 2      | -      | -      | -      | -    | -    | -    |
| Follow-up Hdwy           | -      | -      | -      | -    | -    | 3.32 |
| Pot Cap-1 Maneuver       | 0      | -      | -      | 0    | 0    | 508  |
| Stage 1                  | 0      | -      | -      | 0    | 0    | -    |
| Stage 2                  | 0      | -      | -      | 0    | 0    | -    |
| Platoon blocked, %       | -      | -      | -      | -    | -    | -    |
| Mov Cap-1 Maneuver       | -      | -      | -      | -    | -    | 508  |
| Mov Cap-2 Maneuver       | -      | -      | -      | -    | -    | -    |
| Stage 1                  | -      | -      | -      | -    | -    | -    |
| Stage 2                  | -      | -      | -      | -    | -    | -    |
| Approach                 | EB     | WB     | SB     |      |      |      |
| HCM Control Delay, s     | 0      | 0      | 12.1   |      |      |      |
| HCM LOS                  |        |        | B      |      |      |      |
| Minor Lane/Major Mvmt    | EBT    | WBT    | SBLn1  |      |      |      |
| Capacity (veh/h)         | -      | -      | 508    |      |      |      |
| HCM Lane V/C Ratio       | -      | -      | 0.002  |      |      |      |
| HCM Control Delay (s)    | -      | -      | 12.1   |      |      |      |
| HCM Lane LOS             | -      | -      | B      |      |      |      |
| HCM 95th %tile Q(veh)    | -      | -      | 0      |      |      |      |

| Movement   | EBL  | EBT  | EBR   | WBL  | WBT  | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑    | ↑↓   |       | ↑    | ↑↓   |      | ↑     | ↑↓   |      | ↑    | ↑↓   | ↑    |
| Traffic Volume (veh/h)   | 111  | 692  | 113   | 170  | 728  | 206  | 62    | 467  | 117  | 237  | 671  | 147  |
| Future Volume (veh/h)  | 111  | 692  | 113   | 170  | 728  | 206  | 62    | 467  | 117  | 237  | 671  | 147  |
| Initial Q (Q <sub>b</sub> ), veh   | 0    | 0    | 0     | 0    | 0    | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00 |      | 1.00  | 1.00 |      | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj   | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No   |      |       | No   |      |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 121  | 752  | 123   | 185  | 791  | 224  | 67    | 508  | 127  | 258  | 729  | 160  |
| Peak Hour Factor   | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2    | 2    | 2     | 2    | 2    | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 275  | 1039 | 170   | 353  | 998  | 283  | 176   | 672  | 167  | 332  | 1173 | 523  |
| Arrive On Green  | 0.10 | 0.34 | 0.34  | 0.12 | 0.37 | 0.37 | 0.04  | 0.24 | 0.24 | 0.17 | 0.44 | 0.44 |
| Sat Flow, veh/h  | 1781 | 3057 | 500   | 1781 | 2734 | 774  | 1781  | 2820 | 701  | 1781 | 3554 | 1585 |
| Grp Volume(v), veh/h   | 121  | 437  | 438   | 185  | 514  | 501  | 67    | 319  | 316  | 258  | 729  | 160  |
| Grp Sat Flow(s), veh/h/ln  | 1781 | 1777 | 1780  | 1781 | 1777 | 1731 | 1781  | 1777 | 1744 | 1781 | 1777 | 1585 |
| Q Serve(g_s), s  | 0.3  | 25.8 | 25.8  | 1.8  | 31.0 | 31.0 | 0.0   | 20.0 | 20.2 | 9.3  | 19.0 | 7.9  |
| Cycle Q Clear(g_c), s  | 0.3  | 25.8 | 25.8  | 1.8  | 31.0 | 31.0 | 0.0   | 20.0 | 20.2 | 9.3  | 19.0 | 7.9  |
| Prop In Lane   | 1.00 |      | 0.28  | 1.00 |      | 0.45 | 1.00  |      | 0.40 | 1.00 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 275  | 604  | 605   | 353  | 649  | 632  | 176   | 423  | 416  | 332  | 1173 | 523  |
| V/C Ratio(X)   | 0.44 | 0.72 | 0.72  | 0.52 | 0.79 | 0.79 | 0.38  | 0.75 | 0.76 | 0.78 | 0.62 | 0.31 |
| Avail Cap(c_a), veh/h  | 275  | 604  | 605   | 353  | 649  | 632  | 212   | 423  | 416  | 368  | 1173 | 523  |
| HCM Platoon Ratio  | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00 | 1.33 | 1.33 | 1.33 |
| Upstream Filter(l)   | 1.00 | 1.00 | 1.00  | 0.90 | 0.90 | 0.90 | 1.00  | 1.00 | 1.00 | 0.91 | 0.91 | 0.91 |
| Uniform Delay (d), s/veh   | 47.3 | 34.7 | 34.7  | 43.4 | 34.0 | 34.0 | 52.0  | 42.4 | 42.5 | 44.8 | 27.9 | 24.8 |
| Incr Delay (d2), s/veh   | 0.4  | 7.4  | 7.4   | 0.6  | 8.7  | 9.0  | 0.5   | 11.8 | 12.3 | 7.3  | 2.3  | 1.4  |
| Initial Q Delay(d3), s/veh   | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 3.3  | 12.2 | 12.2  | 4.9  | 14.6 | 14.3 | 2.0   | 10.2 | 10.2 | 7.6  | 7.8  | 3.1  |
| Unsig. Movement Delay, s/veh   |      |      |       |      |      |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 47.7 | 42.0 | 42.0  | 44.0 | 42.8 | 43.0 | 52.5  | 54.2 | 54.8 | 52.1 | 30.1 | 26.1 |
| LnGrp LOS  | D    | D    | D     | D    | D    | D    | D     | D    | D    | D    | C    | C    |
| Approach Vol, veh/h  | 996  |      |       |      | 1200 |      |       | 702  |      |      | 1147 |      |
| Approach Delay, s/veh  | 42.7 |      |       |      | 43.1 |      |       | 54.3 |      |      | 34.5 |      |
| Approach LOS   | D    |      |       |      | D    |      |       | D    |      |      | C    |      |
| Timer - Assigned Phs   | 1    | 2    | 3     | 4    | 5    | 6    | 7     | 8    |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 19.4 | 46.0 | 9.6   | 45.0 | 16.4 | 49.0 | 20.6  | 34.0 |      |      |      |      |
| Change Period (Y+Rc), s  | * 5  | 5.2  | * 5.1 | 5.4  | * 5  | 5.2  | * 5.1 | 5.4  |      |      |      |      |
| Max Green Setting (Gmax), s  | * 12 | 40.8 | * 6.9 | 39.6 | * 9  | 43.8 | * 18  | 28.6 |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 3.8  | 27.8 | 2.0   | 21.0 | 2.3  | 33.0 | 11.3  | 22.2 |      |      |      |      |
| Green Ext Time (p_c), s  | 0.2  | 1.7  | 0.0   | 3.6  | 0.1  | 1.9  | 0.2   | 1.6  |      |      |      |      |
| <b>Intersection Summary</b>  |      |      |       |      |      |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |      |      |       | 42.5 |      |      |       |      |      |      |      |      |
| HCM 6th LOS  |      |      |       | D    |      |      |       |      |      |      |      |      |
| <b>Notes</b>   |      |      |       |      |      |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |      |      |       |      |      |      |       |      |      |      |      |      |

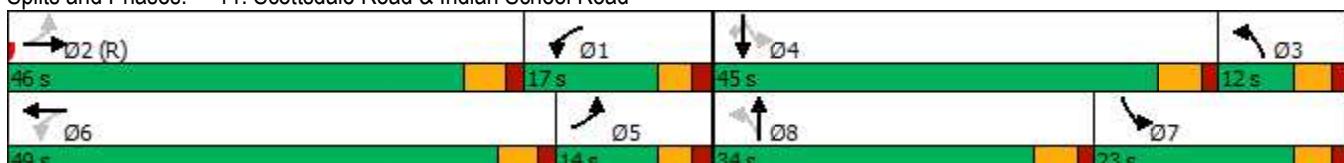


| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | WBL   | EBTL  | NBL   | SBTL  | EBL   | WBTL  | SBL   | NBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | Max   | None  | Max   |
| Maximum Split (s)      | 17    | 46    | 12    | 45    | 14    | 49    | 23    | 34    |
| Maximum Split (%)      | 14.2% | 38.3% | 10.0% | 37.5% | 11.7% | 40.8% | 19.2% | 28.3% |
| Minimum Split (s)      | 10    | 35.2  | 10.1  | 33.4  | 10    | 35.2  | 10.1  | 33.4  |
| Yellow Time (s)        | 3     | 3.6   | 3.3   | 4     | 3     | 3.6   | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.6   | 1.8   | 1.4   | 2     | 1.6   | 1.8   | 1.4   |
| Minimum Initial (s)    | 5     | 10    | 5     | 10    | 5     | 10    | 5     | 10    |
| Vehicle Extension (s)  | 2     | 1     | 2     | 2     | 2     | 1     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 8     |       | 8     |       | 8     |       | 8     |
| Flash Dont Walk (s)    |       | 22    |       | 20    |       | 22    |       | 20    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 46    | 0     | 108   | 63    | 49    | 0     | 97    | 63    |
| End Time (s)           | 63    | 46    | 0     | 108   | 63    | 49    | 0     | 97    |
| Yield/Force Off (s)    | 58    | 40.8  | 114.9 | 102.6 | 58    | 43.8  | 114.9 | 91.6  |
| Yield/Force Off 170(s) | 58    | 18.8  | 114.9 | 82.6  | 58    | 21.8  | 114.9 | 71.6  |
| Local Start Time (s)   | 46    | 0     | 108   | 63    | 49    | 0     | 97    | 63    |
| Local Yield (s)        | 58    | 40.8  | 114.9 | 102.6 | 58    | 43.8  | 114.9 | 91.6  |
| Local Yield 170(s)     | 58    | 18.8  | 114.9 | 82.6  | 58    | 21.8  | 114.9 | 71.6  |

**Intersection Summary**

|  |                      |
|--|----------------------|
| Cycle Length   | 120                  |
| Control Type   | Actuated-Coordinated |
| Natural Cycle  | 90                   |
| Offset: 0 (0%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 11: Scottsdale Road &amp; Indian School Road



| Movement   | EBL   | EBT  | EBR  | WBL  | WBT   | WBR  | NBL   | NBT  | NBR  | SBL  | SBT  | SBR  |
|--|-------|------|------|------|-------|------|-------|------|------|------|------|------|
| Lane Configurations  | ↑     | ↑↑   |      | ↑    | ↑↑    |      |       | ↔    |      | ↓    | ↑    | ↑    |
| Traffic Volume (veh/h)   | 36    | 1071 | 9    | 65   | 1107  | 28   | 11    | 5    | 49   | 121  | 4    | 83   |
| Future Volume (veh/h)  | 36    | 1071 | 9    | 65   | 1107  | 28   | 11    | 5    | 49   | 121  | 4    | 83   |
| Initial Q (Q <sub>b</sub> ), veh   | 0     | 0    | 0    | 0    | 0     | 0    | 0     | 0    | 0    | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)  | 1.00  |      | 1.00 | 1.00 |       | 1.00 | 1.00  |      | 1.00 | 1.00 |      | 1.00 |
| Parking Bus, Adj   | 1.00  | 1.00 | 1.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach  | No    |      |      | No   |       |      | No    |      |      | No   |      |      |
| Adj Sat Flow, veh/h/ln   | 1870  | 1870 | 1870 | 1870 | 1870  | 1870 | 1870  | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h   | 39    | 1164 | 10   | 71   | 1203  | 30   | 12    | 5    | 53   | 132  | 4    | 90   |
| Peak Hour Factor   | 0.92  | 0.92 | 0.92 | 0.92 | 0.92  | 0.92 | 0.92  | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %   | 2     | 2    | 2    | 2    | 2     | 2    | 2     | 2    | 2    | 2    | 2    | 2    |
| Cap, veh/h   | 261   | 2309 | 20   | 363  | 2265  | 56   | 35    | 31   | 98   | 176  | 4    | 502  |
| Arrive On Green  | 1.00  | 1.00 | 1.00 | 0.64 | 0.64  | 0.64 | 0.32  | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |
| Sat Flow, veh/h  | 452   | 3611 | 31   | 478  | 3543  | 88   | 0     | 99   | 309  | 369  | 14   | 1585 |
| Grp Volume(v), veh/h   | 39    | 573  | 601  | 71   | 603   | 630  | 70    | 0    | 0    | 136  | 0    | 90   |
| Grp Sat Flow(s), veh/h/ln  | 452   | 1777 | 1865 | 478  | 1777  | 1854 | 408   | 0    | 0    | 384  | 0    | 1585 |
| Q Serve(g_s), s  | 3.7   | 0.0  | 0.0  | 7.7  | 22.2  | 22.3 | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 4.9  |
| Cycle Q Clear(g_c), s  | 27.1  | 0.0  | 0.0  | 8.2  | 22.2  | 22.3 | 38.0  | 0.0  | 0.0  | 38.0 | 0.0  | 4.9  |
| Prop In Lane   | 1.00  |      | 0.02 | 1.00 |       | 0.05 | 0.17  |      | 0.76 | 0.97 |      | 1.00 |
| Lane Grp Cap(c), veh/h   | 261   | 1136 | 1192 | 363  | 1136  | 1186 | 164   | 0    | 0    | 181  | 0    | 502  |
| V/C Ratio(X)   | 0.15  | 0.50 | 0.50 | 0.20 | 0.53  | 0.53 | 0.43  | 0.00 | 0.00 | 0.75 | 0.00 | 0.18 |
| Avail Cap(c_a), veh/h  | 261   | 1136 | 1192 | 363  | 1136  | 1186 | 164   | 0    | 0    | 181  | 0    | 502  |
| HCM Platoon Ratio  | 2.00  | 2.00 | 2.00 | 1.00 | 1.00  | 1.00 | 1.00  | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)   | 0.66  | 0.66 | 0.66 | 0.69 | 0.69  | 0.69 | 1.00  | 0.00 | 0.00 | 1.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh   | 4.1   | 0.0  | 0.0  | 9.4  | 11.8  | 11.8 | 32.7  | 0.0  | 0.0  | 42.9 | 0.0  | 29.7 |
| Incr Delay (d2), s/veh   | 0.8   | 1.1  | 1.0  | 0.8  | 1.2   | 1.2  | 0.7   | 0.0  | 0.0  | 14.7 | 0.0  | 0.1  |
| Initial Q Delay(d3), s/veh   | 0.0   | 0.0  | 0.0  | 0.0  | 0.0   | 0.0  | 0.0   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln  | 0.3   | 0.3  | 0.3  | 0.8  | 8.5   | 8.9  | 1.5   | 0.0  | 0.0  | 4.9  | 0.0  | 1.9  |
| Unsig. Movement Delay, s/veh   |       |      |      |      |       |      |       |      |      |      |      |      |
| LnGrp Delay(d), s/veh  | 4.9   | 1.1  | 1.0  | 10.2 | 13.0  | 13.0 | 33.3  | 0.0  | 0.0  | 57.6 | 0.0  | 29.8 |
| LnGrp LOS  | A     | A    | A    | B    | B     | B    | C     | A    | A    | E    | A    | C    |
| Approach Vol, veh/h  | 1213  |      |      |      | 1304  |      |       | 70   |      |      | 226  |      |
| Approach Delay, s/veh  | 1.2   |      |      |      | 12.9  |      |       | 33.3 |      |      | 46.5 |      |
| Approach LOS   | A     |      |      |      | B     |      |       | C    |      |      | D    |      |
| Timer - Assigned Phs   | 2     |      | 4    |      | 6     |      | 8     |      |      |      |      |      |
| Phs Duration (G+Y+Rc), s   | 82.7  |      | 43.6 |      | 82.7  |      | 43.6  |      |      |      |      |      |
| Change Period (Y+Rc), s  | * 5.4 |      | 5.6  |      | * 5.4 |      | * 5.6 |      |      |      |      |      |
| Max Green Setting (Gmax), s  | * 72  |      | 37.4 |      | * 72  |      | * 38  |      |      |      |      |      |
| Max Q Clear Time (g_c+l1), s   | 29.1  |      | 40.0 |      | 24.3  |      | 40.0  |      |      |      |      |      |
| Green Ext Time (p_c), s  | 6.2   |      | 0.0  |      | 7.2   |      | 0.0   |      |      |      |      |      |
| <b>Intersection Summary</b>  |       |      |      |      |       |      |       |      |      |      |      |      |
| HCM 6th Ctrl Delay   |       |      | 11.0 |      |       |      |       |      |      |      |      |      |
| HCM 6th LOS  |       |      | B    |      |       |      |       |      |      |      |      |      |
| <b>Notes</b>   |       |      |      |      |       |      |       |      |      |      |      |      |
| * HCM 6th computational engine requires equal clearance times for the phases crossing the barrier. |       |      |      |      |       |      |       |      |      |      |      |      |

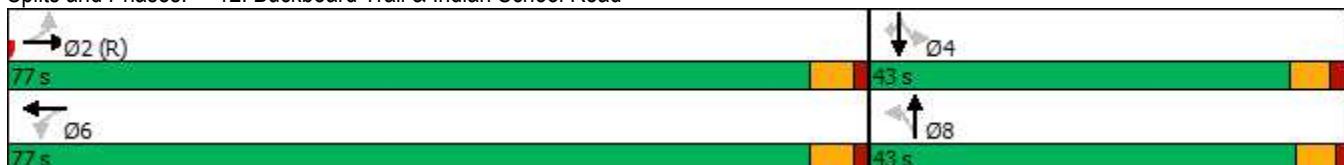


| Phase Number           | 2     | 4     | 6     | 8     |
|------------------------|-------|-------|-------|-------|
| Movement               | EBTL  | SBTL  | WBTL  | NBTL  |
| Lead/Lag               |       |       |       |       |
| Lead-Lag Optimize      |       |       |       |       |
| Recall Mode            | C-Max | None  | Max   | None  |
| Maximum Split (s)      | 77    | 43    | 77    | 43    |
| Maximum Split (%)      | 64.2% | 35.8% | 64.2% | 35.8% |
| Minimum Split (s)      | 27.4  | 36.6  | 27.4  | 36    |
| Yellow Time (s)        | 4     | 3.6   | 4     | 3.6   |
| All-Red Time (s)       | 1.4   | 2     | 1.4   | 1.4   |
| Minimum Initial (s)    | 10    | 7     | 10    | 7     |
| Vehicle Extension (s)  | 2     | 2     | 2     | 2     |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     |
| Walk Time (s)          | 7     | 7     | 7     | 7     |
| Flash Dont Walk (s)    | 15    | 24    | 15    | 24    |
| Dual Entry             | Yes   | Yes   | Yes   | Yes   |
| Inhibit Max            | Yes   | Yes   | Yes   | Yes   |
| Start Time (s)         | 11    | 88    | 11    | 88    |
| End Time (s)           | 88    | 11    | 88    | 11    |
| Yield/Force Off (s)    | 82.6  | 5.4   | 82.6  | 6     |
| Yield/Force Off 170(s) | 67.6  | 101.4 | 67.6  | 102   |
| Local Start Time (s)   | 0     | 77    | 0     | 77    |
| Local Yield (s)        | 71.6  | 114.4 | 71.6  | 115   |
| Local Yield 170(s)     | 56.6  | 90.4  | 56.6  | 91    |

#### Intersection Summary

|   |                      |
|---|----------------------|
| Cycle Length  | 120                  |
| Control Type  | Actuated-Coordinated |
| Natural Cycle   | 75                   |
| Offset: 11 (9%), Referenced to phase 2:EBTL, Start of Green |                      |

Splits and Phases: 12: Buckboard Trail & Indian School Road



| Movement                         | EBL   | EBT   | EBR   | WBL   | WBT   | WBR   | NBL   | NBT   | NBR   | SBL  | SBT  | SBR  |
|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| Lane Configurations              | ↑     | ↑↑↓   |       | ↑     | ↑↑    | ↑     | ↑     | ↑↑    | ↑     | ↑↑   | ↑↑   |      |
| Traffic Volume (veh/h)           | 88    | 1155  | 75    | 300   | 941   | 226   | 105   | 497   | 441   | 334  | 278  | 60   |
| Future Volume (veh/h)            | 88    | 1155  | 75    | 300   | 941   | 226   | 105   | 497   | 441   | 334  | 278  | 60   |
| Initial Q (Q <sub>b</sub> ), veh | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0    | 0    | 0    |
| Ped-Bike Adj(A_pbT)              | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00 |      | 1.00 |
| Parking Bus, Adj                 | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach            | No    |       |       | No    |       |       | No    |       |       | No   |      |      |
| Adj Sat Flow, veh/h/ln           | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870  | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h             | 96    | 1255  | 82    | 326   | 1023  | 246   | 114   | 540   | 479   | 363  | 302  | 65   |
| Peak Hour Factor                 | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92  | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, %             | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2     | 2    | 2    | 2    |
| Cap, veh/h                       | 258   | 1208  | 79    | 323   | 1504  | 671   | 203   | 761   | 339   | 371  | 605  | 128  |
| Arrive On Green                  | 0.03  | 0.12  | 0.12  | 0.15  | 0.42  | 0.42  | 0.11  | 0.21  | 0.21  | 0.11 | 0.21 | 0.21 |
| Sat Flow, veh/h                  | 1781  | 3387  | 221   | 1781  | 3554  | 1585  | 1781  | 3554  | 1585  | 3456 | 2917 | 619  |
| Grp Volume(v), veh/h             | 96    | 658   | 679   | 326   | 1023  | 246   | 114   | 540   | 479   | 363  | 182  | 185  |
| Grp Sat Flow(s), veh/h/ln        | 1781  | 1777  | 1831  | 1781  | 1777  | 1585  | 1781  | 1777  | 1585  | 1728 | 1777 | 1759 |
| Q Serve(g_s), s                  | 0.0   | 42.8  | 42.8  | 17.7  | 28.0  | 12.7  | 7.3   | 16.9  | 25.7  | 12.6 | 10.9 | 11.2 |
| Cycle Q Clear(g_c), s            | 0.0   | 42.8  | 42.8  | 17.7  | 28.0  | 12.7  | 7.3   | 16.9  | 25.7  | 12.6 | 10.9 | 11.2 |
| Prop In Lane                     | 1.00  |       | 0.12  | 1.00  |       | 1.00  | 1.00  |       | 1.00  | 1.00 |      | 0.35 |
| Lane Grp Cap(c), veh/h           | 258   | 634   | 653   | 323   | 1504  | 671   | 203   | 761   | 339   | 371  | 369  | 365  |
| V/C Ratio(X)                     | 0.37  | 1.04  | 1.04  | 1.01  | 0.68  | 0.37  | 0.56  | 0.71  | 1.41  | 0.98 | 0.49 | 0.51 |
| Avail Cap(c_a), veh/h            | 258   | 634   | 653   | 323   | 1504  | 671   | 203   | 761   | 339   | 371  | 369  | 365  |
| HCM Platoon Ratio                | 0.33  | 0.33  | 0.33  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l)               | 0.90  | 0.90  | 0.90  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh         | 49.5  | 52.9  | 52.9  | 49.5  | 28.0  | 23.6  | 50.3  | 43.7  | 47.1  | 53.4 | 42.0 | 42.1 |
| Incr Delay (d2), s/veh           | 0.3   | 44.0  | 44.4  | 52.7  | 2.5   | 1.5   | 2.1   | 5.5   | 201.7 | 40.3 | 4.7  | 4.9  |
| Initial Q Delay(d3), s/veh       | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0  | 0.0  | 0.0  |
| %ile BackOfQ(50%), veh/ln        | 2.8   | 28.1  | 29.1  | 14.3  | 12.1  | 5.0   | 3.3   | 7.9   | 29.0  | 7.5  | 5.2  | 5.3  |
| Unsig. Movement Delay, s/veh     |       |       |       |       |       |       |       |       |       |      |      |      |
| LnGrp Delay(d), s/veh            | 49.8  | 97.0  | 97.4  | 102.2 | 30.5  | 25.2  | 52.4  | 49.2  | 248.8 | 93.7 | 46.7 | 47.0 |
| LnGrp LOS                        | D     | F     | F     | F     | C     | C     | D     | D     | F     | F    | D    | D    |
| Approach Vol, veh/h              | 1433  |       |       |       | 1595  |       |       |       | 1133  |      |      | 730  |
| Approach Delay, s/veh            | 94.0  |       |       |       | 44.3  |       |       |       | 133.9 |      |      | 70.2 |
| Approach LOS                     | F     |       |       |       | D     |       |       |       | F     |      | E    |      |
| Timer - Assigned Phs             | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |       |      |      |      |
| Phs Duration (G+Y+Rc), s         | 19.0  | 30.0  | 15.0  | 56.0  | 18.2  | 30.8  | 23.0  | 48.0  |       |      |      |      |
| Change Period (Y+Rc), s          | * 5.3 | * 5.1 | * 5.3 | * 5.2 | * 5.3 | * 5.1 | * 5.3 | * 5.2 |       |      |      |      |
| Max Green Setting (Gmax), s      | * 14  | * 25  | * 9.7 | * 51  | * 13  | * 26  | * 18  | * 43  |       |      |      |      |
| Max Q Clear Time (g_c+l1), s     | 9.3   | 13.2  | 2.0   | 30.0  | 14.6  | 27.7  | 19.7  | 44.8  |       |      |      |      |
| Green Ext Time (p_c), s          | 0.0   | 0.3   | 0.1   | 1.3   | 0.0   | 0.0   | 0.0   | 0.0   |       |      |      |      |

**Intersection Summary**

HCM 6th Ctrl Delay                            83.5  
HCM 6th LOS                                    F

**Notes**

\* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.



| Phase Number           | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Movement               | NBL   | SBT   | EBL   | WBTL  | SBL   | NBT   | WBL   | EBTL  |
| Lead/Lag               | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  | Lag   | Lead  |
| Lead-Lag Optimize      | Yes   |
| Recall Mode            | None  | C-Max | None  | Max   | None  | C-Max | None  | Max   |
| Maximum Split (s)      | 19    | 30    | 15    | 56    | 18.2  | 30.8  | 23    | 48    |
| Maximum Split (%)      | 15.8% | 25.0% | 12.5% | 46.7% | 15.2% | 25.7% | 19.2% | 40.0% |
| Minimum Split (s)      | 10.3  | 29.1  | 10.3  | 28.2  | 10.3  | 29.1  | 10.3  | 30.2  |
| Yellow Time (s)        | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     | 3.3   | 4     |
| All-Red Time (s)       | 2     | 1.1   | 2     | 1.2   | 2     | 1.1   | 2     | 1.2   |
| Minimum Initial (s)    | 5     | 7     | 5     | 10    | 5     | 7     | 5     | 10    |
| Vehicle Extension (s)  | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   | 2     | 0.2   |
| Minimum Gap (s)        | 3     | 3     | 3     | 3     | 3     | 3     | 3     | 3     |
| Time Before Reduce (s) | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Time To Reduce (s)     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Walk Time (s)          |       | 4     |       | 4     |       | 4     |       | 4     |
| Flash Dont Walk (s)    |       | 20    |       | 19    |       | 20    |       | 21    |
| Dual Entry             | No    | Yes   | No    | Yes   | No    | Yes   | No    | Yes   |
| Inhibit Max            | Yes   |
| Start Time (s)         | 48    | 18    | 3     | 67    | 48.8  | 18    | 115   | 67    |
| End Time (s)           | 67    | 48    | 18    | 3     | 67    | 48.8  | 18    | 115   |
| Yield/Force Off (s)    | 61.7  | 42.9  | 12.7  | 117.8 | 61.7  | 43.7  | 12.7  | 109.8 |
| Yield/Force Off 170(s) | 61.7  | 22.9  | 12.7  | 98.8  | 61.7  | 23.7  | 12.7  | 88.8  |
| Local Start Time (s)   | 30    | 0     | 105   | 49    | 30.8  | 0     | 97    | 49    |
| Local Yield (s)        | 43.7  | 24.9  | 114.7 | 99.8  | 43.7  | 25.7  | 114.7 | 91.8  |
| Local Yield 170(s)     | 43.7  | 4.9   | 114.7 | 80.8  | 43.7  | 5.7   | 114.7 | 70.8  |

**Intersection Summary**

Cycle Length 120

Control Type Actuated-Coordinated

Natural Cycle 130

Offset: 18 (15%), Referenced to phase 2:SBT and 6:NBT, Start of Green

Splits and Phases: 13: Drinkwater Boulevard &amp; Indian School Road

